Forsch Polymer Corp. **ISO 400A** Version: 1.0 **Revision Date:** 12/05/2014 Print Date: 07/02/2015 **SECTION 1. PRODUCT AND IDENTIFICATION COMPANY** Product name : ISO 400A 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 use. :

SAFETY DATA SHEET

2. HAZARDS IDENTIFICATION

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	: 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	 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. 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 f Use water sp Prevent fire	rom fire, sparks and h pray to cool unopened	l containers. om contaminating surface
Special protective equipment for firefighters		of fire, wear self-conta re flameproof clothing	ained breathing apparatus.
CTION 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 er into surface water or I penetration.	ivironment. 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 late the area.
CTION 7. HANDLING AND STOR	AGE		
Advice on safe handling	Wear persor Use only with Do not breat Protect from		ent.
Conditions for safe storage	ventilated pla Protect from Keep under Container ca	moisture.	arbon 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	

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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 tha through the Ensure tha	t extracted air ca ventilation syst	or general area contr annot be returned to t em. ns and safety showe	he workplace
	Personal protective equipn	nent			
	Respiratory protection	limit they m	nust use appropr	ncentrations above th iate certified respirate upplied-air respirator	ors.
	Hand protection Remarks	: Impervious I	butyl rubber glov	res	
	Eye protection		ses 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 n drums with nitr spot heating de contents are con	and prolonged expos (60°C). ogen before resealing vices such as band h mpletely liquid and ur FIN FOR ADDITIONA	g. eaters or iform 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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ISO 400A Revision Date: 12/05/2014 Print Date: 07/02/2015 Version: 1.0 Not applicable Boiling point/boiling range : No data available : No data available Evaporation rate : > 204 °C Flash point Method: closed cup Upper explosion limit : No data available : No data available : Lower explosion limit No data available : Vapour pressure No data available : Relative vapour density 1.02 - 1.11 (20 °C) Relative density Solubility(ies) Water solubility : Decomposes in contact with water. Solubility in other solvents : soluble Solvent: Dimethylformamide Solvent: Tetrahydrofuran : No data available Partition coefficient: noctanol/water : No data available Auto-ignition temperature : No data available Thermal decomposition Viscosity : 400 - 22,500 mPa.s (30 - 100 °C) Viscosity, dynamic Method: No information available. : No data available Viscosity, kinematic

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 contac
Aspiration toxicity (Product)	: No aspiration toxicity classification
Further information (Product)	: The product itself has not been tested.
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SECTION 12. ECOLOGIC	AL INFORMATION			
Ecotoxicity effects				
Toxicity to fish (Produc	ct) : Remarks: No data availa	ble		
Toxicity to daphnia and m-tolylidene diisocya (Component)	Exposure time Species: Gras EC50: 12.5 mg Exposure time	: 48 h s shrimp (Palaemonet g/l		
Toxicity to algae m-tolylidene diisocya (Component)	Exposure time		ater algae)	
Elimination information	ation (persistence and degra	adability)		
Bioaccumulation (Pro	oduct) : Remarks: No data availa	ble		
Mobility (Product)	: Remarks: No data availa	ble		
Biodegradability (Pro	oduct) : Result: No dat	a available		
Further information	n on ecology			
Ecotoxicology Ass	essment			
Results of PBT asse This substance is no Additional ecological information (Product	t considered to be persistent, : This product h	bioaccumulating and taken to a solution as no known ecotoxico		
SECTION 13. DISPOSAL	_ CONSIDERATIONS			
Disposal methods				
Waste from residues		e with local and nation e classified and labelle		
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Persion 1.0 Revision Date: 12052014 Prici Date: Price 20014 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 INFORMATION SECTION 14. TRANSPORT INFORMATION Mark Leave open to air for sufficient time to cure. SECTION 14. TRANSPORT INFORMATION Mark Leave open to air for sufficient time to cure. SECTION 14. TRANSPORT INFORMATION Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. SECTION 14. TRANSPORT INFORMATION Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. Mark Leave open to air for sufficient time to cure. Mark Leave December open to air for sufficient time to cure. <td colsp<="" th=""><th>rsch Pol</th><th>vmer</th><th>SAFETY DATA SHEET</th><th></th></td>	<th>rsch Pol</th> <th>vmer</th> <th>SAFETY DATA SHEET</th> <th></th>	rsch Pol	vmer	SAFETY DATA SHEET	
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	DSL All components of this product are on the Canadian DSL.		
AICS	201	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 v	
	PICCS	On the inventory, or in compliance w	
	IECSC	On the inventory, or in compliance v	with the inventory
\$	SECTION 16. OTHER I	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 and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.		
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