Forsch Polymer Corp.

ISO 951A Version: 1.0 **Revision Date:** 12/05/2014 Print Date: 07/02/2015 **SECTION 1. PRODUCT AND IDENTIFICATION COMPANY** Product name : ISO 951A 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

SAFETY DATA SHEET		
ISO 951A		
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. Storage: P405 Store locked up. Dispose of contents/ container to an approved waste disposal plant. 	
Carcinogenicity:		
IARC	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	
	2/10	

Forsch Polymer Corp.

ISO 951A

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	

	100		
	ISO 9		
Version: 1.0	Revision Date:	12/05/2014	Print Date: 07/02/2015
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 e flameproof clothing	ained breathing apparatus.
SECTION 6. ACCIDENTAL RELEAS	SE 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 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 late the area.
SECTION 7. HANDLING AND STOP	RAGE		
Advice on safe handling	Wear persor Use only with Do not breat Protect from		ent. h.
Conditions for safe storage	ventilated pla Protect from Keep under Container ca	moisture. nitrogen.	carbon dioxide due to
Materials to avoid	: Water, Alcoh	nols, Strong oxidizing	agents
SECTION 8. EXPOSURE CONTR	OLS/PERSONAL	PROTECTION	
Components with workplace	e control parame	ters	
		/ 10	

Forsch Polymer

:	1.0	Revision Date:	12/05/2014	Prin	t Date: 07/02/20
	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 e ventilation syst	for general area contr annot be returned to t em. Ins and safety showe	he workplace
	Personal protective equipr	nent			
	Respiratory protection	limit they m	nust use appropr	ncentrations above the iate certified respirate upplied-air respirator	ors.
	Hand protection Remarks	: Impervious I	butyl rubber glov	/es	
	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 resealin vices such as band h mpletely liquid and ur TIN FOR ADDITION/	g. leaters or niform before
	SECTION 9. PHYSICAL AND	O CHEMICAL PROF	PERTIES		
	Appearance	: viscous liqu	iid		
	Color	: colourless			
	Odor	: slight			
	Odour Threshold	: No data ava	ailable		
	рH	: Not applica	ble		
	Melting point/range				
	menting periorange				

Forsch Polymer

ISO 951A		
ersion: 1.0	Revision Date: 12/05/2014	Print Date: 07/02/2015
	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)	
Solubility(ies)		
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	

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 951A					
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 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 contact				
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 9	51A	
sion:	1.0	Revision Date:	12/05/2014	Print Date: 07/02/2015
SECTION 1	2. ECOLOGICAL INFO	RMATION		
Ecoto	xicity effects			
Toxicity	to fish (Product)	: Remarks: No data availab	le	
m-toly	to daphnia and other aq lidene diisocyanate oonent)	: LC50: > 508 mg Exposure time: Species: Grass EC50: 12.5 mg/ Exposure time:	48 h shrimp (Palaemonete ′I	
	to algae lidene diisocyanate oonent)	: EC50: 4,300 m Exposure time: Species: Chlore		ater algae)
Elimir	nation information (per	sistence and degra	dability)	
Bioaco	cumulation (Product)	: Remarks: No data availab	le	
Mobili	y (Product)	: Remarks: No data availab	le	
Biode	gradability (Product)	: Result: No data	available	
Furth	er information on ecolo	ogy		
Ecoto	xicology Assessment			
This s Additio	s of PBT assessment (F ubstance is not consider onal ecological ation (Product)	ed to be persistent, b	bioaccumulating and t s no known ecotoxico	
SECTION	13. DISPOSAL CONSID	ERATIONS		
	sal methods			
	from residues		with local and nationa classified and labelle	al regulations. d prior to recycling or
			8 / 10	

rsch Pol	lymer	SAFETY DATA SHEET	
	-		
Version:	1.0	ISO 951A Revision Date: 12/05/2014	Print Date: 07/02/2015
	1.0		
		Do not contaminate ponds, waterwa chemical or used container.	ays 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.	hemical known to the
			1-62-5 The s:
	US.TSCA	On TSCA Inventory	
		9 / 1	0

SAFETY DATA SHEET						
rsch lymer						
ISO 951A						
ersion:	1.0	Revision Date: 12/05/2014	Print Date: 07/02/2015			
AICS	DSL	All components of this product are o On the inventory, or in compliar				
	NZIoC	Not in compliance with the inventory				
	ENCS	On the inventory, or in compliance v				
	KECI	On the inventory, or in compliance v				
	PICCS	On the inventory, or in compliance v				
	IECSC	On the inventory, or in compliance v	with the inventory			
:	SECTION 16. OTHER I	NFORMATION				
		provided in this Safety Data Sheet is correct to the				
		of at the date of its publication. The information given and the set of its publication. The information given and the set of the se				
		sidered a warranty or quality specification. The inf				
	the specific material	designated and may not be valid for such materia	al used in combination			
	with any other mater	ials or in any process, unless specified in the text	t.			
		10)/10			