

Poly Fix® Part A

Version 1

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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):	Poly Fix® Part A
Synonyms:	N/Å
CAS No:	Mixture
1.2 Product Use:	Ultra Low Viscosity Polymer Concrete Repair Binder
1.3 Company Name:	SpecChem
Company Address:	1511 Baltimore Ave; Suite 600
Company Address Cont:	Kansas City, MO 64108
Business Phone:	(816) 968-5600
Website:	www.specchemllc.com
1.4 Emergency Telephone Number:	VelocityEHS 1-(800)255-3924 (North America) +1-813-248-
	0585 (International) 1-300-954-583 (Australia) 0-800-591-6042
	(Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-
	099-0731 (Mexico)
Date of Last Revision:	June 26, 2019
Date of Current Revision:	May 30, 2024

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear to amber colored liquid with a petroleum distillate odor.

<u>Health Hazards:</u> May cause skin, eye, and respiratory system irritation. May be an aspiration hazard. Inhalation may cause drowsiness or dizziness

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

Not Regulated



EU and GHS Symbols:

Signal Word:

Danger

GHS Ratings:

Inhalation Toxicity A	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l,
		Dusts&mists>1+<=5mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >=
		2.3 < 4.0 or persistent inflammation.
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days.
Respiratory sensitizer	r 1	Respiratory sensitizer.
Skin sensitizer	1	Skin sensitizer.



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	mited evidence of human or anima	al carcinogenicity.
Reproductive Toxicity 2		
GHS Hazards		
H315 Causes skin irritation.		
H317 May cause an allergic skin	reaction.	
H319 Causes serious eye irritation		
H332 Harmful if inhaled.		
H334 May cause allergy or asthr	na symptoms or breathing difficulti	ies if inhaled.
H351 Suspected of causing can		
H361d Suspected of damaging th	e unborn child.	
GHS Precautions		
P201 Obtain special instructions	before use.	
· · · · · · · · · · · · · · · · · · ·	ty precautions have been read and	d understood.
P261 Avoid breathing dust/fume		
P264 Wash thoroughly after han		
P271 Use only outdoors or in a v		
	g should not be allowed out of the	workplace.
	otective clothing/eye protection/face	
P281 Use personal protective ec	uipment as required.	
P285 In case of inadequate vent	ilation wear respiratory protection.	
P312 Call a POISON CENTER of	or doctor/physician if you feel unwe	ell.
P321 Specific treatment (see Se	ction 4 of the SDS).	
P362 Take off contaminated clot	hing and wash before reuse.	
P363 Wash contaminated clothin	ng before reuse.	
P302+P352 IF ON SKIN: Wash with so	ap and water.	
P304+P340 IF INHALED: Remove pers	son to fresh air and keep at rest in	a position comfortable for
breathing.		
P304+P341 IF INHALED: If breathing is		ir and keep at rest in a
position comfortable for br		
P305+P351+P338 IF IN EYES: Rinse		al minutes. Remove contact
lenses if present and easy		
P308+P313 IF exposed or concerned:		
P332+P313 If skin irritation occurs: Ge		
P333+P313 If skin irritation or a rash of P337+P313 Get medical advice/attention		1.
P342+P313 Get medical advice/altention P342+P311 If experiencing respiratory		ER or doctor/physician
P405 Store locked up.	symptoms. Can a POISON CENT	
	ner according to Section 13 of the	202
		020.
SECTION 3 – COMPOSITION / INFORMATIC	ON ON INGREDIENTS	
Hazardous Ingredients	WT% CA	AS No.
U		
4,4'-methylenediphenyl diisocyanate	50-70% 10	01-68-8



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Benzene, 1,1'-methylenebis [isocyanato- ,homopolymer]	10-30%	39310-05-9
Diphenylmethane-2,4'-diisocyanate	5-10%	5873-54-1
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	<40%	6846-50-0
Balance of other ingredients are non-hazardous or respiratory sensitizers).	less than 1% in concentration (or	^r 0.1% for carcinogens, reproductive toxins, or

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Consult a physician or transport to a medical facility.
Eye Contact:	Immediately flush eyes with large quantities of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.
Skin Contact:	Wash immediately and thoroughly with soap and flowing water. Remove contaminated clothing while washing. Seek medical attention if irritation persists. An MDI skin decontamination study demonstrated that cleaning very soon after exposure is important, and that a polyglycol-based skin cleanser or corn oil may be more effective than soap and water.
Ingestion:	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Notes to Physician:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. Cholinesterase inhibition has been noted in human exposure but is not of benefit in determining exposure and is not correlated with signs of exposure. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome).



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SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: 230° C (446° F)

Flammable Properties: Product is not considered a fire hazard, but will burn if ignited. NFPA Flammability Class: III B (Combustible liquid).

Suitable Extinguishing Media: Carbon dioxide, dry chemical, water fog or fine spray. Alcohol resistant foams are preferred, general purpose synthetic foams or protein foams may function, but will not be as effective.

Unsuitable Extinguishing Media: Do not use direct water stream, as it may spread fire. Unusual Fire and Explosion Hazards: Product reacts with water. Reaction may produce heat and/or gases. This reaction may be violent. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is produced when product burns.

Products of Combustion: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, ammonia, nitrogen oxides, isocyanates, hydrogen cyanide and other unidentified toxic and/or irritating compounds.

Fire Fighting: Stay upwind and keep people away. Isolate fire and deny unnecessary entry. Keep out of low areas where gases (fumes) can accumulate. Water is not recommended, but may be applied in large quantities as a fine spray when other extinguishing agents are not available. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. Use water spray to cool fire-exposed containers and fire-affected zone until fire is out. Contain fire water run-off if possible, as it may cause environmental damage. Review section 6 and section 12 of this SDS.

Protection of Firefighters: Wear positive pressure self-contained breathing apparatus (SCBA) and approved protective clothing (helmet, coat, trousers, boots and gloves). If contact is likely, use full chemical resistant fire fighting clothing with SCBA.

SECTION 6 - ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal Precautions: Put on appropriate personal protective equipment (see section 8). Environmental Precautions: Prevent spilled material from contact with soil, drains and sewers. Methods for Containment: Contain by diking with sand, earth or other suitable material. Methods for Clean-up: Absorb spill with an inert material, use non-sparking tools to place into labeled waste container for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Wear appropriate personal protective equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Do not ingest. Avoid prolonged or repeated contact



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employed in any process handling. Do not handle ignition and hot metal su	ergic skin reaction, persons w s in which this product is used or store near flame, heat or s urfaces. Inopened containers in a shell	l. Wash thoroughly with soap trong oxidants. Keep away fro	and water after om sources of
	essure. Do not store in direct		
SECTION 8 – EXPOSURE COM	NTROLS / PERSONAL PROT	TECTION	
8.1 Exposure Paramete	<u>ers:</u>		
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
4,4'-methylenediphenyl diisocyanate 101-68-8	Not Established	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI)	NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m3 TW/A
airborne levels below the Local exhaust ventilation General Hygiene Consid smoking. Eye/face Protection: Use faceshield. Skin Protection: Use ned gloves to prevent skin in body covering clothing a Respiratory Protection: I irritation is experienced, respirator fitted with orga means of protection, use levels may exceed the le pressure air-supplying re on cured material, use a Contaminated Gear: Res	eneral mechanical ventilation e exposure guidelines, if estat n may be necessary for some derations: Wash thoroughly af e chemical safety glasses, spl oprene, nitrile/butadiene rubbe ritation. If potential for skin con and rubber boots. If exposure may or does excer or during spray application, u anic vapor cartridges and part e a full-face supplied air respir evel for which an air-purifying espirator (air line or self-conta above respirator fitted with HEI move contaminated clothing a ich cannot be decontaminated	olished. operations. ter handling and before eating ash-proof eye goggles or gog er or other impermeable chem ntact is present, wear impervi- ed occupational exposure limi se a properly fitted MSHA/NIG iculate pre-filters. If the respir rator. For situations where the respirator is effective, use an ined breathing apparatus). If se PA filters or a dust mask. and shoes while washing. Was	g, drinking or ggles with full nical resistant ous, long-sleeved, its, respiratory OSH approved rator is the sole e atmospheric approved positive- sanding or grinding sh clothing before
SECTION 9 – PHYSICAL AND	CHEMICAL PROPERTIES		
	sic Physical and Chemical P State and Color): Clear to pa		



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Odor: Mild Odor Threshold: No data available pH: No data available Melting/Freezing Point: No data available Boiling Point: Not data available **Flash Point:** Flash Point: 230°C (446°F) Evaporation Rate: No data available Flammability (Solid: Gas): No data available Upper/Lower Flammability or Explosion Limits: No data available Vapor Pressure (mm Hg @ 20°C (68° F): No data available Vapor Density: No data available Relative Density: No data available Specific Gravity: 1.0 – 1.2 Solubility in Water: No data available Weight per Gallon: No data available Partition Coefficient (n-octanol/water): No data available Auto-Ignition Temperature: No data available **Decomposition Temperature:** No data available Viscosity: No data available 9.2 Other Information: No data available

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions (see Section 7). Conditions to Avoid: Avoid temperatures above 450 deg F (230 deg C), potential violent decomposition may occur. Avoid contact with water, as material reacts with water, releasing carbon dioxide which can cause rapid pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction.

Incompatible Materials: Strong acids, bases, or oxidizing agents. Avoid unintended contact with amines, alcohols, water, moist air and metals such as aluminum, brass, copper, tin, zinc and galvanized metals.

Products of Combustion: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, ammonia, nitrogen oxides, isocyanates, hydrogen cyanide and other unidentified toxic and/or irritating compounds.

Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGY INFORMATION

Information on likely routes of :

No data is available on the product itself exposure

Acute toxicity Components:



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FEDERAL OSHA Z LIST, NTP, IARC, o causing agents by these agencies. Irritancy: Skin, eye, respiratory irritant. Sensitization to the Product: This product Germ Cell Mutagenicity: This product co mutagenic.	rithin this product are found on one or more of the following lists: or CAL/OSHA and therefore are considered to be cancer- ect is not expected to cause skin sensitization. Intains ingredients that are suspected to be a germ cell ot expected to be a human reproductive toxicant.
<u>Components:</u> 4,4'-Methylenediphenyl diisocyanate: Acute oral toxicityComponents	LD50 (Rat, male): > 10,000 mg/kg method: OECD Test Guideline 401
Benzene 1,1'-methylenedis[isocyanato-, Acute oral : toxicityComponents	, homopolymer: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance of mixture has no acute oral toxicity
Acute inhalation toxicity - :	Acute toxicity estimate: 1.49 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method:
2,2,4-trimethyl-1,3-pentanediol diisobuty	yrate:
Acute oral toxicity :	LD50 Oral (Rat): > 2,000 mg/kg
Acute inhalation toxicity :	LC50 (Rat): > 0.12 mg/l Exposure time: 6 h
Acute dermal toxicity :	LD50 Dermal (Rabbit): > 2,000 mg/kg
<u>Components:</u> 4,4'-Methylenediphenyl diisocyanate: Acute dermal toxicity :	LD50 (Rabbit, male and female): > 9,400 mg/kg Method: OECD Test Guideline 402
Benzene 1,1'-methylenedis[isocyanato-, Acute dermal toxicity : Diphenylmethane-2,4' – diisocyanate: Acute dermal toxicity :	, homopolymer: LD50 (Rabbit, male and female): > 9,400 mg/kg Method: OECD Test Guideline 402 LD50 (Rabbit, male and female): > 9,400 mg/kg Metod: OECD Test Guideline 402
Acute toxicity (other routes : of administration)	No data available



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Skin corrosion/irritation

Components:

4,4'-Methylenediphenyl diisocyanate: Species: Rabbit Method: OECD test Guideline 404 Result: Irritating to skin

Benzene 1,1'-methylenedis[isocyanato-, homopolymer: Species: Rabbit Result: Skin irritation GLP: yes

Diphenylmethane-2,4' – diisocyanate: Species: Rabbit Assessment: Irritant Method: OECD Test Guideline 404 Result: Irritating to skin.

2,2,4-trimethyl-1,3-pentanediol diisobutyrate: Species : Guinea pig Exposure time : 24 h Result : slight skin irritation

Serious eye damage/eye irritation

Components:

4,4'-Methylenediphenyl diisocyanate: Species: Rabbit Result: Mild eye irritation

Benzene 1,1'-methylenedis[isocyanato-, homopolymer: Species: Rabbit Result: Mild eye irritation Method: OECD Test Guideline 405 GLP: yes

Diphenylmethane-2,4' – diisocyanate: Species: Humans Result: Irritation to eyes, reversing within 7 days Assessment: Mild eye irritant Method: OECD Test Guideline 405 Remarks: Mild eye irritation

Respiratory or skin sensitization

Components:

4,4'-Methylenediphenyl diisocyanate:



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Exposure routes: Skin	
Species: Mouse	
Method: OECD Test Guideline 429	
Result: May cause sensitisation by skin contact	
Result. May cause sensitisation by skin contact	
Exposure routes: Respiratory Tract	
Species: Guinea pig	
Result: May cause sensitisation by inhalation	
Benzene 1,1'-methylenedis[isocyanato-, homopolymer:	
Exposure routes: Skin	
Species: Guinea pig	
Method: OECD Test Guideline 406	
Result: May cause sensitisation by skin contact	
Exposure routes: Respiratory Tract	
Species: Guinea pig	
Result: May cause sensitisation by inhalation.	
Diphenylmethane-2,4' – diisocyanate:	
Exposure routes: Skin	
Species: Mouse	
Assessment: May cause sensitisation by skin contact.	
Result: Causes sensitisation.	
Exposure routes: Respiratory Tract	
Species: Guinea pig	
Assessment: May cause sensitisation by inhalation	
Result: Causes sensitisation.	
2,2,4-trimethyl-1,3-pentanediol diisobutyrate:	
Test Type: Skin Sensitization	
Species: Guinea pig	
Result: non-sensitizing	
Componente	
Components: 4,4'-Methylenediphenyl diisocyanate:	
Assessment: May cause sensitisation by inhal	lation and skin contact
Assessment. May cause sensitisation by initial	
Benzene 1,1'-methylenedis[isocyanato-, homopolymer:	
Assessment: May cause sensitisation by inhal	lation and skin contact.
Diphenylmethane-2,4' – diisocyanate:	
Assessment: Mild eye irritation	
Germ cell mutagenicity	
<u>Components:</u>	



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4,4'-Methylenediphenyl diisocyanate: Genotoxicity in vitro :	Concentration: 200 ug/plate Metabolic activation: with and without metabolic activation Method: Directive 67/548/EEC, Annex, B. 13/14 Result: negative
Benzene 1,1'-methylenedis[isocyanato-, Genotoxicity in vitro :	homopolymer: Concentration: ca 50 ug/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Diphenylmethane-2,4' – diisocyanate: Genotoxicity in vitro :	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
<u>Components:</u> 4,4'-Methylenediphenyl diisocyanate: Genotoxicity in vivo :	Application Route: inhalation Exposure time: 3 Weeks Dose: 118 mg/m3 Method: OECD Test Guideline 474 Result: negative
Benzene 1,1'-methylenedis[isocyanato-, Genotoxicity in vitro :	homopolymer: Application Route: inhalation Exposure time: 3 Weeks Dose: 118 mg/m3 Method: OECD Test Guideline 474 Result: negative
Diphenylmethane-2,4' – diisocyanate: Genotoxicity in vitro :	Application Route: inhalation Exposure time: 3 Weeks Dose: 118 mg/m3 Method: OECD Test Guideline 474 Result: negative
<u>Components:</u> Benzene 1,1'-methylenedis[isocyanato-, Germ cell mutagenicity- : Assessment	homopolymer: Arimal testing did not show any mutagenic effects.
Germ cell mutagenicity- : Assessment	No data available
Components: 2,2,4-trimethyl-1,3-pentanediol diisobuty	rate



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Germ cell mutagenic	ity : Not classified based on available information	
Carcinogenicity		
Components: 4,4'-Methylenediphe Species: Rat, (male Application Route: Ir Exposure time: 24 m Dose: 1 mg/m ³ Frequency of Treatm Method: OECD Test Result: positive Target Organs: Lung Benzene 1,1'-methy Species: Rat, (male	and female) halation louth(s) nent: 5 daily Guideline 453 ls enedis[isocyanato-, homopolymer:	
Application Route: Ir Exposure time: 24 m Dose: 1 mg/m ³ Frequency of Treatn Method: OECD Test Result: negative	halation outh(s) nent: 5 daily	
Diphenylmethane-2, Species: Rat, (male Application Route: Ir Exposure time: 24 m Dose: 1 mg/m ³ Frequency of Treatm Method: OECD Test Result: positive Target Organs: Lung	and female) halation houth(s) nent: 5 daily Guideline 453	
Carcinogenicity- Assessment	: No Data Available	
IARC	No component of this product present at levels greater than or identified as probable. Possible or confirmed human carcinog	
ACGIH	No component of this product present at levels greater than or identified as a carcinogen or potential carcinogen by ACGIH	or equal to 0.1% is
OSHA	No component of this product present at levels greater than or identified as a carcinogen or potential carcinogen by OSHA	or equal to 0.1% is
NTP	No component of this product present at levels greater than or identified as a known or anticipated carcinogen by NTP	or equal to 0.1% is



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Reproductive toxicity	
<u>Components:</u> Diphenylmethane-2,4' – diis Effect on fertility :	socyanate: Species: Rat, female Application Route: Inhalation Method: OECD Test Guideline 414 Result: Animal testing did not show any effects on fertility
	Species: Rat, male and female Application Route: Inhalation Method: OECD Test Guideline 414 Result Animal testing did not show any effects on fertility
Components:	
4,4'-Methylenediphenyl diiso Effects on fertility : development	ocyanate: Species: Rat, female Application Route: Inhalation General Toxicity Maternal: No observed adverse effect level: 4 Mg/m ³ Method: OECD Test Guideline 414 Result: No teratogenic effects
Benzene 1,1'-methylenedis[[isocyanato-, homopolymer: Species: Rat, female Application Rout: Inhalation General Toxicity Maternal: No observed adverse effect level: 4 Mg/m ³ Method: OECD Test Guideline 414 Result: No teratogenic effects
<u>Components:</u> Benzene 1,1'-methylenedis[Reproductive toxicity -	[isocyanato-, homopolymer: : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
2,2,4-trimethyl-1,3-pentaned Effects on fetal developmen	•
STOT – single exposure	
Components:	



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Version 1 pg. 13 4,4'-Methylenediphenyl diisocyanate: Exposure routes: inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation. Benzene 1,1'-methylenedis[isocyanato-, homopolymer: Exposure routes: inhalation (dust/mist/fume) Target Organs: Respiratory Tract Assessment: May cause respiratory irritation. Diphenylmethane-2,4' - diisocyanate: Exposure routes: Inhalation Target Organs: Respiratory system Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. STOT – single exposure No data available Repeated dose toxicity Components: 4,4'-Methylenediphenyl diisocyanate: Species: Rat, male and female : 0.2 mg/m3 Exposure time: 2 yr Number of exposures: 5 d Method: OECD Test Guideline 453 Benzene 1,1'-methylenedis[isocyanato-, homopolymer: Species: Rat, male and female : 0.2 mg/m3 Exposure time: 2 yr Number of exposures: 5 d Method: OECD Test Guideline 453 Diphenylmethane-2,4' - diisocyanate: Species: Rat, male and female : 0.2 mg/m3 Exposure time: 2 yr Number of exposures: 5 d Method: OECD Test Guideline 453 Components: Benzene 1,1'-methylenedis[isocyanato-, homopolymer: Repeated dose toxicity -No adverse effect has been observed in chronic toxicity : Assessment tests.



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Diphenylmethane-: Repeated dose tox Assessment	2,4' – diisocyanate: kicity - : Mild eye irritation	
Aspiration toxicit No data available	у	
Experience with h General Informatio Inhalation:		
Skin contact:	No data available	
Eye contact:	No data available	
Ingestion:	No data available	
Toxicology, Meta l No data available	bolism, Distribution	
Neurological effe No data available	cts	
Further information	on	
<u>Product:</u> Remarks: No data	available	
TION 12 – ECOLOGICAL		
Ecotoxicity		
Components:	itanediol diisobutyrate: : NOEC (Fish):>= 6 mg/l	
Toxicity to fish	Exposure time: 96 h Remarks: (limit of solubility in fresh w	ater)
	Exposure time: 96 h Remarks: (limit of solubility in fresh w	



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	Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202	
2,2,4-trimethyl-1,3-pentanediol diis Toxicity to daphnia and other: aquatic invertebrates	sobutyrate: NOEC (Daphnia): >- 1.46 mg/l Exposure time: 48 h Remarks: (limit of solubility in fresh water)	
Diphenylmethane-2,4' – diisocyan Toxicity to daphnia and other: aquatic invertebrates	ate: LC50 (Brachydanio reio (zebrafish)): > 1,00 Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202	00 mg/l
<u>Components:</u> 2,2,4-trimethyl-1,3-pentanediol diis Toxicity to algae:	sobutyrate: EC50 (Chlorella pyrenoido Exposure time: 72 h Remarks: (limit of solubility	
Benzene 1,1'-methylenedis[isocya Toxicity to algae:	inato-, homopolymer EC50 (Desmodesmus sub (Scenedesmus subspicatu Exposure Time: 72 h Test Type: static test Test substance: Fresh wat Method: OECD Test Guide	s)): > 1,640 mg/l er
M-Factor (Acute aquatic toxicity):	no data available	
<u>Components:</u> Benzene 1,1'-methylenedis[isocya Toxicity to fish (Chronic:GLP:no to		
Components:		
2,2,4-trimethyl-1,3-pentanediol diis Toxicity to daphnia and other Aquatic invertebrates (Chronic toxicity)	sobutyrate: : EC50 (Daphnia): >1.3 mg/l Exposure time: 21 d Remarks: (limit of solubility in fresl	n water)
4,4'-Methylenediphenyl diisocyana Toxicity to daphnia and other	ate: : NOEC (Daphnia magna (Water fle	a)): >= 10 mg/l



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Aquatic invertebrates (Chronic toxicity)	Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211	
Benzene 1,1'-methylenedis[isocyanato-, hor Toxicity to daphnia and other : Aquatic invertebrates (Chronic toxicity)	nopolymer NOEC (Daphnia magna (Water flea)): >= 10 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211	
Diphenylmethane-2,4' – diisocyanate: Toxicity to daphnia and other : Aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): >= 10 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211	
M-Factor (Acute aquatic toxicity):	no data available	
<u>Components:</u> Benzene 1,1'-methylenedis[isocyanato-, hor Toxicity to microorganisms :	nopolymer EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 209	
Diphenylmethane-2,4' – diisocyanate: Toxicity to microorganisms :	EC50 (activated sludge): > 100 mg/l Exposure time: 3 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 209	
<u>Components:</u> 4,4'-Methylenediphenyl diisocyanate: Toxicity to soil dwelling : organisms	NOEC (Eisenia fetida (earthworms)): >= 1,000 mg Exposure time: 336 h Method: OECD Test Guideline 207	ŋ/kg
Benzene 1,1'-methylenedis[isocyanato-, hor Toxicity to soil dwelling : organisms	nopolymer EC50 (Eisenia fetida (earthworms)): > 1,000 mg/k Exposure time: 336 h	g



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		Method: OECD Test Guideline 207
Diphenylmethane-2,4' – diisocy Toxicity to soil dwelling organisms	anate: :	NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg Exposure time: 336 h Method: OECD Test Guideline 207
Plant Toxicity	:	No data available
Sediment toxicity	:	No data available
Toxicity to terrestrial organisms	:	No data available
Ecotoxicology Assessment Acute aquatic toxicity	:	No data available
Chronic aquatic toxicity	:	No data available
Toxicity Data on Soil	:	No data available
Other organisms relevant to the environment	:	No data available
Persistence and degradability	1	
<u>Components:</u> 4,4'-Methylenediphenyl diisocya	anate:	
Biodegradability	:	Inoculum: Domestic sewage Concentration: 30 mg/l Result: Not biodegradable Biodegradation: 0% Exposure time: 28 d Method: Inherent Biodegradability:Modified MITI Test (II)
Benzene 1,1'-methylenedis[isoo Biodegradability	syanato-, h :	nomopolymer Inoculum: Domestic sewage Concentration: 30 mg/l Result: Not biodegradable Biodegradation: 0% Exposure time: 28 d Method: Inherent Biodegradability:Modified MITI Test (II)



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Diphenylmethane-2,4' – diisocya Biodegradability ThOD: 2.40 g/g	anate :	Inoculum: Domestic sewage Concentration: 30 mg/l Result: Not biodegradable Biodegradation 0% Exposure time: 28 d Method: Inherent Biodegradability:Modified MITI Test (II) 2,2,4-trimethyl-1,3-pentanediol diisobutyrate: Biodegradability: Biodegradation: 70.73 % Exposure time: 28 d Method: Ready Biodegradability: CO2 Evolution Test
Biochemical Oxygen Demand (BOD)	:	No data available
Chemical Oxygen Demand (COD)	:	No data available
BOD/COD	:	No data available
Dissolved organic carbon (DOC)	:	No data available
Physico-chemical removability	:	No data available
<u>Components:</u> 4,4'-Methylenediphenyl diisocya Stability in water	nate: :	Degradation half life (DT50): 20 hrs (25 °C) Method: No information available Remarks: Fresh water
Photodegradation	:	No data available
Impact on Sewage Treatment	:	No data available
Bioaccumulative potential		
<u>Components:</u> 4,4'-Methylenediphenyl diisocya Bioaccumulation	nate: :	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200 Remarks: Bioaccumulation is unlikely



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Benzene 1,1'-methylenedis[isocyal Bioaccumulation	nato-, ho :	mopolymer Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF):200 Remarks: Bioaccumulation is unlikely 2,2,4-trimethyl-1,3-pentanediol diisobutyrate: Distribution among environmental compartments: log Koc: 2.69 - 3.6; Method: QSAR model
Diphenylmethane-2,4' – diisocyana Bioaccumulation	ate :	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200 Remarks: Bioaccumulation is unlikely 2,2,4-trimethyl-1,3-pentanediol diisobutyrate: Bioaccumulation: Species: Fish Bioconcentration factor (BCF): 1.95 Species: Fish Bioconcentration factor (BCF): 183 - 194
<u>Components:</u> 4,4'-Methylenediphenyl diisocyana Partition coefficient: n- octanol/water	te: :	log Pow: 4.51 (20 °C) pH: 7 Method: OECD Test Guideline 117
Benzene 1,1'-methylenedis[isocyal Partition coefficient: n- octanol/water	nato-, ho :	mopolymer log Pow: 8.56 (20 °C)
Diphenylmethane-2,4' – diisocyana Partition coefficient: n-	ate :	log Pow: 4.51 (20 °C) pH: 7 Method: OECD Test Guideline 117
Mobility in soil Mobility	:	No data available
Distribution among Environmental compartments	:	No data available
Stability in soil	:	2,2,4-trimethyl-1,3-pentanediol diisobutyrate: Distribution among environmental compartments: log Koc: 2.69 - 3.6; Method: QSAR model
Other adverse effects Environmental fate and pathways	:	No data available



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Results of PBT and vPvB assessment	:	No data available
Endocrine disrupting potential	:	No data available
Adsorbed organic bound halogens (AOX)	:	No data available
Hazardous to the ozone layer Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class I Substances Remarks: This product neither contains, nor was Manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)
Additional ecological Information – Product	:	No data available
Global warming potential (GWP) ppppp	:	No data available
CTION 13 – DISPOSAL CONSIDER	ATIONS	
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of	se of in ac	cordance with federal, state and local regulations. The inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor.
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of	ose of in ac f uncontam e using a lic	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor.
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device	se of in ac f uncontam e using a lic FORMATIC	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor.
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI 14.1 U.S. Department of Trans	se of in act f uncontam e using a lic FORMATIC	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. ON (DOT) Shipping Regulations:
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI 14.1 U.S. Department of Trans	se of in act f uncontam e using a lic FORMATIC	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor.
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name:	se of in act f uncontam s using a lic FORMATIO portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des	se of in act f uncontam s using a lic FORMATIO portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group:	se of in act f uncontam s using a lic FORMATIO portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required:	se of in act f uncontam e using a lic FORMATIC portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required: North American Emergency R	se of in act f uncontam e using a lic FORMATIC portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required: North American Emergency R Guidebook Number:	se of in act f uncontam e using a lic FORMATIC portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required: North American Emergency R Guidebook Number: <u>14.2 Environmental Hazards:</u>	se of in act f uncontam e using a lic FORMATIC portation O CFR 172.	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required: North American Emergency R Guidebook Number: <u>14.2 Environmental Hazards:</u> Marine Pollutant:	se of in act f uncontam e using a lic FORMATIO FORMATIO CFR 172. scription:	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None None None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required: North American Emergency R Guidebook Number: <u>14.2 Environmental Hazards:</u> Marine Pollutant: <u>14.3 Special Precaution for Us</u>	se of in act f uncontam using a lic FORMATIO FORMATIO OCFR 172. scription: esponse	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None None None None
CTION 13 – DISPOSAL CONSIDER Waste Disposal Methods: Dispo preferred method for disposal of other thermal destruction device CTION 14 - TRANSPORTATION INI <u>14.1 U.S. Department of Trans</u> <i>This product is classified (per 49</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Des Packing Group: DOT Label(s) Required: North American Emergency R Guidebook Number: <u>14.2 Environmental Hazards:</u> Marine Pollutant:	se of in act f uncontam using a lic FORMATIO FORMATIO OCFR 172. scription: esponse	inated product is by recycling, reclaiming, incineration or censed and permitted waste disposal contractor. DN (DOT) Shipping Regulations: 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None None None None



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14.5 International Maritime Organization Shipping Information (IMO): UN Identification Number: Proper Shipping Name: Hazard Class Number and Description: Packing Group: EMS-No:

Not regulated as dangerous goods None None None None

Special Notes: This product is not regulated according to US DOT regulations when in individual containers of less than 11111 lbs (5039.5 kgs).

SECTION 15 – REGULATORY INFORMATION

USA Federal: This SDS has been prepared in compliance with the Occupational Safety and Health Act (OSHA)

Hazard Communication Standard (29 CFR 1910.1200). This product is considered to be a hazardous chemical under that standard. The specific chemical identity and/or exact percentage of any proprietary ingredient(s) may be withheld as a trade secret, pursuant to the standard.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): To the best of our knowledge, this product contains the following chemicals which are known to the State of California to cause cancer or reproductive toxicity at levels which require warning under this statute: - None

Massachusetts Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute: 26447-40-5 Diphenylmethane Diisocyanate (MDI) Mixed Isomers < 70 % 101-68-8 4,4'-Diphenylmethane Diisocyanate (MDI) 50 to 70 %

New Jersey Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute: 26447-40-5 Diphenylmethane Diisocyanate (MDI) Mixed Isomers < 70 %

Pennsylvania Right to Know: To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute: 101-68-8 4,4'-Diphenylmethane Diisocyanate (MDI) 50 to 70 %

USA Resource Conservation and Recovery Act (40 CFR 261): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute: - None

USA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) - section 302 Extremely Hazardous Substances Threshold Planning Quantities (TPQs): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

- None



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USA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) - section 302 Hazardous Substances Reportable Quantities (RQs): To the best of our knowledge, this product contains the following chemicals at levels which require reporting under this statute:

101-68-8 4,4'-Diphenylmethane Diisocyanate (MDI) 50 to 70 %

USA Toxic Substances Control Act (TSCA) - section 12(b): To the best of our knowledge, this product contains the following chemicals above the de minimus concentration(s) which requires notification to the Environmental Protection Agency (EPA) per 40 CFR 707, subpart D, if any person intends to export: - None

Country	Regulation	All Components Listed
Australia	Australian inventory of Chemical Substances	Yes
Canada	(AICS) Canada Domestic Substance List	Yes
Canada	Canada Non-Domestic Substance List (NDSL)	No
China	China Inventory of Existing Chemical Substances	Yes
EU	EU REACH List of Registered Intermediates	No
EU	EU REACH List of Pre-Registered Substances	No
EU	EU REACH List of Registered Substances	No
Japan	Japanese Existing and New Chemical Substance List	Yes
South Korea	South Korea Existing Chemicals Inventory	Yes
Philippines	Philippines Inventory of Chemicals and Chemical	No
USA	USA TSCA Inventory List Section 8(b)	Yes

SECTION 16 – OTHER INFORMATION

Date of Printing: May 30,2024

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):	Poly Fix® Part B
Synonyms:	N/A
1.2 Product Use:	Polyurea Repair Product
1.3 Company Name:	SpecChem
Company Address:	1511 Baltimore Ave; Suite 600
Company Address Cont:	Kansas City, MO 64108
Business Phone:	(816) 968-5600
Website:	www.specchemllc.com
1.4 Emergency Telephone Number:	VelocityEHS 1-(800)255-3924 (North America) +1-813-248-
	0585 (International) 1-300-954-583 (Australia) 0-800-591-6042
	(Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-
	099-0731 (Mexico)
Date of Last Revision:	June 27, 2019
Date of Current Revision:	May 30, 2024

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a clear to amber colored liquid with a petroleum distillate odor.

<u>Health Hazards:</u> May cause skin, eye, and respiratory system irritation. May be an aspiration hazard. Inhalation may cause drowsiness or dizziness

Flammability Hazards: This product is a non-flammable liquid.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

Not Reguated



EU and GHS Symbols:

Signal Word:

Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC: Index Number:

500-033-5 is listed in Annex I 603-074-00-8 265-199-0 is listed in Annex I 649-356-00-4 Substances not listed either individually or in group entries must be self classified.



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Components Contributing to Classification: 2.2 Label Elements:	Bisphenol A Diglycidyl Ether Resin
GHS Hazard Classifications:	Skin Irritation Category 2
	Skin Sensitization Category 1
	Eye Irritant Category 2
	Germ Cell Mutagenicity Category 2
	Chronic Aquatic Toxicity Category 2
	Flammable Liquid Category 3
	Carcinogenicity Category 1B
	STOT – SE Category 3 (Respiratory System,
	Central Nervous System)
	Aspiration Toxicity Category 1
	Reproductive Toxicity Category 2
Hazard Statements:	H315 Causes skin irritation
	H317 May cause an allergic skin reaction
	H319 Causes serious eye irritation
	H341 Suspected of causing genetic defects
	H411 Toxic to aquatic life with long lasting
	effects
	H350 May cause cancer
	H335 May cause respiratory irritation
	H336 May cause drowsiness or dizziness
	H304 May be fatal if swallowed and enters
	airways
	H361d Suspect of damaging the unborn child
Precautionary Statements:	
······································	P201 Obtain special instructions before use.
	P202 Do not handle until all safety precautions
	have been read and understood.
	P210 Keep away from heat/sparks/open
	flames/hot surfaces. No smoking.
	P233 Keep container tightly closed.
	P240 Ground/Bond container and receiving
	equipment.
	P241 Use explosion-proof
	electrical/ventilating/lighting equipment.
	P242 Use only non-sparking tools.
	P243 Take precautionary measures against
	static discharge.
	P261 Avoid breathing
	dust/fume/gas/mist/vapours/spray.
	P264 Wash thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated
	area.
	P272 Contaminated clothing should not be
	allowed out of the workplace.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/eye
	protection/face protection.
	protection/tace protection



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Response Statements:	P302+P352 IF ON SKIN: Wash with plenty of
	water.
	P305+P351+P338 IF IN EYES: Rinse
	cautiously with water for several minutes.
	Remove contact lenses, if present and easy to
	do. Continue rinsing.
	P308 + P313 IF exposed or concerned: Get
	medical advice/ attention.
	P332+P313 If skin irritation occurs: Get medical
	advice/attention.
	P333+P313 If skin irritation or rash occurs: Get
	medical advice/attention.
	P337+P311 If eye irritation persists: Get
	medical advice/attention.
	P362+P364 Take off contaminated clothing and
	wash it before reuse.
	P304+P340 IF INHALED: Remove person to
	fresh air and keep comfortable for breathing.
	P308+P313 IF exposed or concerned: Get
	medical advice/attention.
	P301+P310 IF SWALLOWED: Immediately call
	a POISON CENTER/doctor.
	P303+P361+P353 IF ON SKIN (or hair): Take
	off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P370+P378 In case of fire: Use dry sand, dry
	chemical or alcohol resistant foam for
	extinction.
	P391 Collect spillage.
Storage Statements:	P405 Store locked up.
Disposal Statements:	P501 Dispose of contents/container in accordance
	with local/regional/national/international regulations.
2.3 Health Hazards or Risks From Exposure:	

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness. Skin Contact: May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking.

Eye Contact: Vapours and direct contact to the eyes may be irritating. Ingestion: May cause lung damage if aspirated.

Chronic: Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Skin, Eyes, Respiratory System, Central Nervous System Chronic: Skin.



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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	WT%	CAS No.	EINECS No.	Hazard Classification
Proprietary component A	<50%	NA	NA	Eye Irrit. 2A
Bisphenol A Diglycidyl Ether Resin	<1%	25068-38-6	500-033-5	Flam. Liq. 3; Skin Irrit. 2; Carc. 1B, Muta. 1B; STOT SE 3; ASP. Tox. 1, Aquatic Chronic 2
2,2,4-trimethyl-1,3-pentaned diisobutyrate	>%40	229-934-9	6846-50-0	Rep Tox. 2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers). Specific chemical identities and exact percentages may have been withheld as a trade secret of CBI in complia with 29 CFR 1910.1200 (i).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

|--|

Eva Contact:	If product optors the even fluck with planty of water or even week
Eye Contact:	If product enters the eyes, flush with plenty of water or eye wash
	solution for several minutes. Remove contacts if present and easy to
	do. Seek medical attention if irritation persists.
Skin Contact:	Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.
Inhalation:	If breathing becomes difficult, remove victim to fresh air. If necessary,
	use artificial respiration to support vital functions. Seek medical
	attention.
Ingestion:	If product is swallowed, call physician or poison center immediatly. If
0	professional advice is not available, do not induce vomiting. Never
	induce vomiting or give dilutents (milk or water) to someone who is
	unconscious, having convulsions, or who cannot swallow. Seek medical
	advice. Take a copy of the label and/or SDS with the victim to the health professional.
Medical Conditions	F
Generally Aggravated	
By Exposure:	Pre-existing skin, respiratory system or eye problems may be
	aggravated by prolonged contact.
4.2 Symptoms and Effe	cts Both Acute and Delayed: Exposure to skin and eyes may cause
	irritation.
4.3 Recommendations	to Physicians: Treat symptoms and eliminate overexposure.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:



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Use the following fire extinguishing materials:	Water Spray: Yes Foam: Yes Halon: Yes Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class
5.2 Unusual Fire and Explosion Hazards: Irritating and toxic fumes may be produced at h the formation of a toxic aqueous solution. Do n drains or water courses.	igh temperatures. Use of water may result if
Explosive Sensitivity to Mechanical Impact: Explosive Sensitivity to Static Discharge:	No No
 5.3 Special Fire-Fighting Procedures: Incipient fire responders should wear eye p Structural firefighters must wear Self-Conta Apparatus (SCBA) and full protective equip Isolate materials not yet involved in the fire Move containers from fire area if this can b applied water spray. If possible, prevent run-off water from ente environmentally sensitive areas. 	ained Breathing oment. and protect personnel. e done without risk; otherwise, cool with carefully
SECTION 6 – ACCIDENTAL RELEASE MEASURES (ST	EPS FOR SPILLS)
6.1 Personal Precautions, Protective Equipmen Use cautious judgment when cleaning up spill. Weaprotection.	t and Emergency Procedures: ar suitable protective clothing, gloves, and eye/face
6.2 Environmental Precautions: Construct a dike to prevent spreading. Keep out of	sewers, storm drains, surface waters, and soils.
6.3 Spill and Leak Response:	

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

• Place in leak-proof containers. Seal tightly for proper disposal.



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 Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Epoxy Sealer.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Proprietary component A	NA	None Established	None Established
Bisphenol A Diglycidyl Ether Resin	25068-38-6	Not Listed	Not Listed

8.2 Exposure Controls: Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:	Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.
Eye Protection:	Safety glasses or goggles are required.

9.2 Other Information: No data available



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	If necessary, refer to U.S. OSHA 29 CFR
	1910.133, Canadian Standards, and the
	European Standard EN166, Australian
	Standards, or relevant Japanese Standards.
Hand Protection:	Chemical resistant gloves are required to
	prevent skin contact.
	If necessary, refer to U.S. OSHA 29 CFR
	1910.138, the European Standard DIN EN 374,
	the appropriate Standards of Canada, Australian
	Standards, or relevant Japanese Standards.
Body Protection:	Use body protect appropriate to task being
-	performed.
	If necessary, refer to appropriate Standards of
	Canada, or appropriate standards of the EU,
	Australian Standards, or relevant Japanese
	Standards. If a hazard of injury to the feet exists
	due to falling objects, rolling objects, where
	objects may pierce the soles of the feet or where
	employee's feet may be exposed to electrical
	hazards, use foot protection, as described in
	U.S. OSHA 29 CFR 1910.136.
ION 9 – PHYSICAL AND CHEMICAL P	(RUPER HES
ION 9 – PHYSICAL AND CHEMICAL P	
9.1 Information on Basic Physical ar	nd Chemical Properties:
9.1 Information on Basic Physical ar Appearance (Physical State and Col	nd Chemical Properties:
<u>9.1 Information on Basic Physical ar</u> Appearance (Physical State and Col Odor: Petroleum distillate odor	nd Chemical Properties:
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Ingredients within this product are not found on one or more of

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SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity:	This product is not reactive.
10.2 Stability:	Stable under conditions of normal storage and use.
10.3 Possibility of Hazardous Reactions:	Will not occur.
10.4 Conditions to Avoid:	Heat, open flame or other sources of ignition.
10.5 Incompatible Substances:	Strong oxidizing agents.
10.6 Hazardous Decomposition Products	: Carbon monoxide, Carbon dioxide and other decompo

<u>10.6 Hazardous Decomposition Products</u>: Carbon monoxide, Carbon dioxide and other decomposition products can occur during combustion if not use according to specifications.

SECTION 11 – TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:			
Bisphenol A Diglycidyl Ether Resin	25068-38-6	LD50 Oral – Rat	13,600 mg/kg
Proprietary component A		LD50 oral - rat	>3000 mg/kg
2,2,4-trimethyl-1,3-		LD50 Oral (Rat):	> 2,000 mg/kg
pentanediol diisobutyrate	6846-50-0	LC50 Inhalation (Rat)	> 0.12 mg/l
		Dermal (Rabbit)	>2,000 mg/kg

Suspected Cancer Agent:

	the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or
	CAL/OSHA and therefore are not considered to be cancer-
	causing agents by these agencies.
Irritancy:	Skin, eye irritant.
Sensitization to the Product:	This product is expected to cause skin sensitization.
Germ Cell Mutagenicity:	This product contains ingredients that are suspected to be a germ cell mutagenic.
Reproductive Toxicity:	No data available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity:

Bisphenol A Diglycidyl	25068-38-6	LC50 – Rainbow Trout	<10 mg/l – 96h
Ether Resin	2000-30-0	EC50 – Algae	<10 mg/l – 96h
2,2,4-trimethyl-1,3-pentane diisobutyrate	6846-50-0	NOEC (Fish)	>= 6 mg/l
		NOEC (daphnid)	>=1.46 mg/l
		EC50 Chronic toxicity	> 1.3 mg/l
		(Daphnia)	
		NOEC Chronic toxicity	0.7 mg/l
		(Daphnia)	
		EC50 – Algae (Chlorella	> 7.49 mg/l
		pyrenoidosa)	

12.2 Persistence and Degradability:

12.3 Bioaccumulative Potential:

No specific data available on this product. No specific data available on this product.



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12.5 Results of PBT and vPvB Assessment:12.6 Other Adverse Effects:No12.7 Water Endangerment Class:At	o specific data available on this product. No specific data available on this product. o data available t present, there are no ecotoxicological assessments r this product.
SECTION 13 – DISPOSAL CONSIDERATIONS	
13.1 Waste Treatment Methods:	Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and Japan.
13.2 EU Waste Code:	Not determined
SECTION 14 - TRANSPORTATION INFORMATION	
14.1 U.S. Department of Transportation (DOThis product is classified (per 49 CFR 172.101)UN Identification Number:Proper Shipping Name:Hazard Class Number and Description:Packing Group:DOT Label(s) Required:North American Emergency ResponseGuidebook Number:14.2 Environmental Hazards:Marine Pollutant:14.3 Special Precaution for User:14.4 International Air Transport AssociationShipping Information (IATA):Shipping Information (IMO):UN Identification Number:Proper Shipping Name:Hazard Class Number and Description:Packing Group:EMS-No:) by the U.S. Department of Transportation, as follows. Not Regulated None None None None None
Special Notes:	This product is not regulated according to Canadian TDG regulations.
SECTION 15 - REGULATORY INFORMATION	

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:



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United States Regulations: U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: Yes; Reactivity; No

U.S. CERCLA Reportable Quantity:

Not Applicable

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing. **Other U.S. Federal Regulations:**

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

All components are listed or exempt.

15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed U.S. TSCA: Listed



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SECTION 16 – OTHER INFORMATION

Date of Printing: June 27, 2019

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET