



Pro-Cast 132 Resin Part A

Section 1 Identification

Relevant identified uses Identified uses Details of the supplie	s: Fast-Cast Polyureth	e or mixture and uses advised against ane Isocyanate Component sheet	HMIS H 3 F 2 R 1 PPE Sec. 8
	oad, Avon, OH 44011 34-1902	Company	
24 Hour emergency	_	CHEMTREC (800) 424-9300 n 2 Hazard Identification	
GHS Classification in	accordance with 29) CFR 1910.1200 (OSHA HCS)	
Skin irritation,			
	ion, Category 1		
Eye irritation,		1	
	ensitization, Category (Inhalation), Category		
		ted exposure Category 1 (Respiratory Tract)	
	• • •	exposure Category 3 (Respiratory System)	
	ard, Category 1	exposure category 5 (nespiratory system)	
-	ic Toxicity, Category	4	
1	<i>,</i> , , , , , , , , , , , , , , , , , ,		
GHS Label elements,	including precautio	onary statements	
Hazard pictograms		!	
Signal word	Danger		
May cause alle May cause dan Causes skin an May cause an a	piratory irritation. ergy or asthma sympto		ure if inhaled.
-	ic life with long lastin	•	
Prevention	nents		
	e mist, vapors or spra	у.	



Pro-Cast Resin Part A

Section 2 Hazard Identification continued

 Wear protective gloves/eye protection/finction in the case of inadequate ventilation wear rewash skin and face thoroughly after hand Do not eat, drink or smoke when using the Avoid release to the environment. Response If on skin: Remove/take off immediately water/shower. If skin irritation or rash off inhaled: If breathing is difficult, remove for breathing. If experiencing respiratory If in eyes: Rinse continuously with water present and easy to do. Continue rinsing. 	spiratory protection dling. his product. all contaminated clothing. F ccurs get medical attention e to fresh air and keep at res symptoms get medical attention for at least 15 minutes. Res	st in a position comfortable ention. move contact lenses, if
If swallowed: Immediately call a poison o	enter and seek medical atte	ention.
Storage		
Store in a well-ventilated place. Keep con	tainer tightly closed.	
Disposal		
Dispose of contents and container to an a national regulations. Hazards not otherwise classified (HNOC) or not		cordance with local and
None known		
Section 3 Composition	n/Information on Ingredi	ents
X	,	
Ingredient	CAS Number	Concentration (%)
4,4'-Diphenylmethane diisocyanate	101 (0.0	15 20
(MDI)	101-68-8	15 – 30
Polymeric diphenylmethane	0016 07 0	5 - 15
diisocyanate (pMDI)	9016-87-9	5 - 15
Di-iso-propylnaphthalene	38640-62-9	5 - 15
N-Methylpyrrolidone	872-50-4	<0.1
Cumene	98-82-8	<0.01

Section 4 First Aid Measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. The onset of respiratory symptoms may be delayed for several hours after exposure. Get medical attention if irritation develops.

In case of skin contact

Wash thoroughly with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and shoes before reuse.

In case of eye contact

Flush eyes with water for at least 15 minutes. Get medical attention immediately.

If swallowed

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.



Pro-Cast Resin Part A

Section 4 First Aid Measures continued

Most important symptoms and effects, both acute and delayed
Eye contact : Causes eye irritation. Inhalation : Harmful if inhaled. May cause respiratory irritation. Repeated inhalation of vapor at levels above the occupational exposure limit could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing.
Skin contact : Causes skin irritation. May cause sensitization by skin contact. Ingestion : May cause irritation of the gastrointestinal tract. Risk of lung edema if swallowed and enters airway.
Notes to physician : Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.
Section 5 Fire-Fighting Measures
Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media
High volume water jet
Special hazards arising from the chemical
Fire or high heat may produce hazardous decomposition products: carbon dioxide, carbon
monoxide, oxides from nitrogen, dense black smoke
Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary. Further information
Closed containers may rupture under extreme heat or when contents are contaminated with water. Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Apply water from a safe distance, since reactions between water and hot diisocyanates can be vigorous.
Section 6 Accidental Release Measures
Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas.
For personal protection see section 8.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Use an inert absorbent (e.g. sand, silica gel, sawdust, universal binder). Sweep up or shovel into a suitable containers for disposal.
Section 7 Handling and Storage
Procentions for sets handling
Precautions for safe handling Use normal precautions when handling combustible materials. Do not breathe fumes or vapor.
Do not allow material to contact skin. Provide appropriate exhaust ventilation.
Conditions for safe storage, including any incompatibilities
Store at ambient temperatures in closed containers. Do not heat this material above the flash point. Incompatible with water, alcohols, amines, bases, and acids.



Pro-Cast Resin Part A

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

	OS	НА	AC	CGIH
Ingredient	PEL	STEL	TWA	STEL
4,4'-Diphenylmethane Diisocyanate	0.2 ppm	Not available	0.005 ppm	Not available

Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Personal protective equipment

Eye/face protection

Safety glasses equipped with side shields or goggles.

Skin protection

Hand protection

Chemical-resistant, impervious gloves. Contaminated gloves should be replaced.

Body protection

Prevent skin contact when handling material.

Respiratory protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Safety stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General hygienic practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Opaque tan liquid
Odor	Mild earthy, musty
Odor threshold	No data available
рН	No data available
Melting or freezing point	No data available
Initial boiling point/boiling range	No data available
Flash point (COC)	130°C (266°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density (g/cc)	1.70±0.05
Water solubility	Insoluble-slowly reacts with water to produce CO_2



Section 9 Physical and Chemical Properties continued

Coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity VOC Content % Volatile No data available No data available No data available Approximately 1000 cP at room temperature 0.84 lb/gal <5%

Section 10 Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Polymerization may occur. Avoid contact with moisture or other material, which react with isocyanates. May occur at temperatures above 400°F (204°C)

Conditions to avoid

Heat and open flames.

Incompatible materials

Water, alcohols, amines, metal compounds, bases, and acids

Hazardous decomposition products

Thermal oxidative decomposition can produce carbon monoxide, carbon dioxide, oxides of nitrogen, dense black smoke, isocyanate, isocyanic acid, and other undetermined compounds.

Section 11	Toxicological Information
Information on toxicological effects	
Acute oral toxicity	LD50, Rat >10,000 mg/kg (Polymeric MDI)
Acute inhalation toxicity	LC50, Rat 0.49 mg/L (Polymeric MDI)
Acute dermal toxicity	LD50, Rabbit >9,400 mg.kg (Polymeric MDI)
Skin corrosion/irritation	Mild skin irritant
Serious eye damage/eye irritation	
Respiratory or skin sensitization	Skin sensitizer and respiratory sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	
0	product present at levels greater than or
1	ified as a carcinogen or potential carcinogen.
-	product present at levels greater than or
-	ified as a carcinogen or potential carcinogen.
=	product present at levels greater than or
-	ified as a carcinogen or potential carcinogen.
-	product present at levels greater than or equal
-	s a carcinogen or potential carcinogen.
Reproductive toxicity	Not expected to be a hazard
Specific target organ toxicity	Single exposure May cause respiratory irritation
Specific target organ toxicity	Repeated exposure Respiratory system
Aspiration toxicity	May be fatal if swallowed or enters airway.



Pro-Cast Resin Part A

Section 12 Ecological Information

Ecotoxicity	Product:	No data available
Ecotoxicity	Specified substances:	No uata avallable
	Di-iso-propylnaphthalene	EC50 (Daphnia 1): 0.16 mg/L
Persistence and degradability	Product:	No data available
	Specified substances:	
	Polymeric (MDI):	Not degradable
Bioaccumulative potential	Product:	No data available
	Specified substances:	
	Polymeric (MDI):	Does not biaccumulate
Mobility in soil	Product:	No data available
	Specified substances:	No data available
S	ection 13 Disposal Considerat	tions

Contact a licensed contractor for detailed recommendations Follow applicable Federal, state, and local regulations.

Section 14 Transport Information

DOT Proper Shipping Name: TDG Proper Shipping Name: IMDG Proper Shipping Name: IATA Proper Shipping Name: Liquid Resin N.O.I Not Regulated Liquid Resin N.O.I Not Regulated Liquid Resin N.O.I Not Regulated Liquid Resin N.O.I Not Regulated

Section 15 Regulatory Information

US Federal Regulations

Toxic Substance Control Act: All ingredients listed on TSCA Inventory. CERCLA Reportable Quantity (RQ):4,4'-Diphenylmethane Diisocyanate (5,000 lb.), SARA Sec 302 Extremely Hazardous Substances: None present in regulated quantities. SARA Sec. 311/312 Codes: Acute Health Hazard, Chronic Health Hazard SARA Sec. 313 Toxic Chemicals (40 CFR 372): 4,4'-Diphenylmethane Diisocyanate, Polymeric Diphenylmethane Diisocyanate, Cumene, and N-Methylpyrrolidone

US State Regulations

California Prop 65: A WARNING: This product can expose you to Cumene and N-Methylpyrrolidone, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u>



Pro-Cast Resin Part A

Section 16 Other Information

Disclaimer

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Pro-Cast 132 Hardener Part B





Pro-Cast 132 Hardener Part B

Section 2 Hazard Identification continued

Hazards not otherwise classified (HNOC) or not covered by GHS

None known

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Concentration (%)
Polyether polyols	Proprietary mixture of 25214-63-5, 9051-49-4, 25322-69-4	10 - 30
Di-iso-propylnaphthalene	38640-62-9	5 - 15
Distillates (petroleum) hydrotreated light	64742-47-8	1 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 5
Xylene mixture	1330-20-7	<0.1
Cumene	98-82-8	<0.1
N-Methylpyrrolidone	872-50-4	<0.1

Section 4 First Aid Measures

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. Get medical attention if irritation develops.

In case of skin contact

Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and shoes before reuse.

In case of eye contact

Flush eyes with water for at least 15 minutes. Get medical attention immediately.

If swallowed

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

Eye contact: Causes eye irritation.

Inhalation: May cause irritation

Skin contact: Causes skin irritation

Ingestion: May cause irritation of the gastrointestinal tract.

Notes to physician: Symptomatic treatment and supportive therapy as indicated.

Section 5 Fire-Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

High volume water jet

Special hazards arising from the substance or mixture

Fire or high heat may produce hazardous decomposition products: carbon dioxide, carbon monoxide, and other aliphatic fragments which have not been determined.



Pro-Cast 132 Hardener Part B

Section 5 Fire-Fighting Measures continued

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, or mist. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Use an inert absorbent (e.g. sand, silica gel, sawdust, universal binder). Sweep up or shovel into a suitable containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Use normal precautions when handling combustible materials. Do not breathe fumes or vapor. Do not allow material to contact skin. Provide appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers. Do not heat this material above the flash point. Incompatible with acids, and oxidizing agents.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Component	Value Type	Control	Source
		parameters	
Polyether polyols	TWA	20 ppm	ACGIH
Distillates (petroleum) hydrotreated light	TWA	200 mg/m ³	ACGIH
1,2,4-Trimethylbenzene	TWA	25 ppm	ACGIH
Xylene mixture	TWA	100 ppm	ACGIH
Cumene	TWA	50 ppm	ACGIH
N-Methylpyrrolidone	TWA	10 ppm	US WEEL

Exposure controls

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Personal protective equipment

Eye/face protection

Safety glasses equipped with side shields or goggles.

Skin protection

Hand protection

Chemical-resistant, impervious gloves. Contaminated gloves should be replaced.





Pro-Cast 132 Hardener Part B

Section 8 Exposure Controls/Personal Protection continued

Body protection

Prevent skin contact when handling material.

Respiratory protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Safety stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General hygienic practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Opaque gray liquid
Odor	Mild, of polyol
Odor threshold	No data available
рН	No data available
Melting or freezing point	No data available
Initial boiling point/boiling range	No data available
Flash point (COC)	66°C (150°F)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density (g/cc)	1.70±0.05
Water solubility	Slight
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Approximately 2000 cP at room temperature
VOC Content	0.5 lb/gal
% Volatile	3-8%

Section 10 Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use **Chemical stability** Stable under recommended storage conditions **Possibility of hazardous reactions** None known **Conditions to avoid** Heat and open flames



Pro-Cast 132 Hardener Part B

	ses, acids, and oxidizing agents	
lazardous decomposition produ		
		oxide, carbon dioxide, and other
aliphatic fragments which h	lave not been determined	
Se	ection 11 Toxicological Inform	ation
nformation on toxicological effe	ects	
Acute oral toxicity		ng/kg (Polyether polyol)
Acute inhalation toxicity	No data available	
Acute dermal toxicity		.kg (Polyether polyol)
Skin corrosion/irritation	Mild skin irritant	
Serious eye damage/eye i		
Respiratory or skin sensi Germ cell mutagenicity	No data available	
Carcinogenicity	no uata avallable	
	ent of this product present at lev	els greater than or equal
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Pro-Cast 132 Hardener Part B

Section 13 Disposal Considerations

Do not dispose of waste into sewer. Do not contaminate waterways. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 Transport Information

DOT Proper Shipping Name: TDG Proper Shipping Name: IMDG Proper Shipping Name: IATA Proper Shipping Name: Liquid Resin N.O.I Not Regulated Liquid Resin N.O.I Not Regulated Liquid Resin N.O.I Not Regulated Liquid Resin N.O.I Not Regulated

Section 15 Regulatory Information

US Federal Regulations

Toxic Substance Control Act: All ingredients listed on TSCA Inventory. CERCLA Reportable Quantity (RQ): Cumene (5,000 lb.), Xylene (100 lb.) SARA Sec 302 Extremely Hazardous Substances: None present in regulated quantities. SARA Sec. 311/312 Codes: Acute Health Hazard, Fire Hazard SARA Sec. 313 Toxic Chemicals (40 CFR 372.65): 1,2,4-Trimethylbenzene, Cumene, Xylene, and N-Methylpyrrolidone

US State Regulations

California Prop 65: A WARNING: This product can expose you to Cumene and N-Methylpyrrolidone, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u>

Section 16 Other Information

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