



SAFETY DATA SHEET According to GHS

PO Box 1528 • Mount Airy, NC 27030-1528
800.346.8229 • Fax 336.789.9586 • www.NCFI.com

Dalton, GA

Mount Airy, NC

Houston, TX

Section 1: Identification

Product Identifier

Trade Name: B-24-120(Activator)
Chemical Name: Polyurethane Prepolymer
Recommended Use: Component for the manufacture of Polyurethanes
Restrictions on Use:

Chemical Manufacturer Information

Name:	NCFI Polyurethanes	Phone:	(800) 346-8229
Address:	1515 Carter St Mount Airy, NC 27030	Fax:	(336) 789-9586
Website:	www.NCFI.com	Emergency Phone:	CHEMTREC: 800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture:

GHS Classification:	
Resp. Sens. Category 1	Carcinogen, Category 2
STOT RE, Category 2	Acute Toxicity, Category 4
Skin Irritation, Category 2	Eye Irritation, Category 2A
Skin Sensitivity, Category 1	STOT SE, Category 3

GHS Labeling:



Warning

Hazard Statements:	
• May Cause allergy or asthma symptoms of breathing difficulties if inhaled	• Suspected of causing cancer
• May cause damage to organs through prolonged or repeated exposure	• Harmful if Swallowed
• Causes skin irritation	• Causes serious eye irritation
• Causes allergic skin reaction	• May cause respiratory irritation

Precautionary Statements:	
Obtain special instructions before use	Do not handle until all safety precautions have been read and understood
Do not breathe dust/fume/gas/mist/vapors/spray	Use only outdoors or in a well-ventilated area
Wash thoroughly after handling	Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/ face protection	IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing



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IF ON SKIN: Wash with plenty of soap and water	Call poison center/doctor if you feel unwell
Specific treatment (see on label)	Get medical advice/attention if you feel unwell
Take off contaminated clothing and wash it before reuse	If skin irritation of skin irritation or rash occurs: Get medical advice/attention
If eye irritation persists: Get medical advice/attention	If experiencing respiratory symptoms: Call a poison center/doctor
Wash contaminated clothing before reuse	Store in a well-ventilated space. Keep container tightly closed. In closed containers, there may be a risk of pressure build up due to water contamination
Store locked up.	Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3: Composition

Hazardous Components

Type of product: Mixture

Section 4: First Aid Measures

General	<ul style="list-style-type: none">• Symptoms of poisoning may even occur after several hours; therefore, medical observation is required for at least 48 hours after the accident• MDI Vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Persons with preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TLV with similar symptoms as well as asthmatic attack.
Inhalation:	<ul style="list-style-type: none">• In case of unconsciousness, place patient stably inside position for transportation• In case of respiratory failure or breathing irregularities, commence resuscitation or administer oxygen• If inhaled, remove victim from the immediate area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Eye Contact:	<ul style="list-style-type: none">• Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	<ul style="list-style-type: none">• Do NOT induce vomiting; immediately call for medical help.



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Most Important symptoms and effects, acute and delayed:	<ul style="list-style-type: none">Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate the mucous membranes in respiratory tract causing runny nose, sore throat, coughing chest discomfort, shortness of breath and reduced lung function. Persons with preexisting, nonspecific bronchial hyperactivity and respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm, and pulmonary edema. Chemical or hypersensitivity pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.Acute Skin Contact: Causes irritation with symptoms of reddening, itching, and swelling. Person previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove.Chronic Skin Contact: Prolonged contact can cause reddening, swelling, rash, and in some cases skin sensitization. Animal test and other research indicate that skin contact with diisocyanates can play a role in causing sensitization and respiratory reaction.
Indication of immediate medical attention and special treatment, if applicable:	<ul style="list-style-type: none">N/A
Skin Contact:	<ul style="list-style-type: none">Instantly wash with water and soap and rinse thoroughly. Remove any contaminated clothing. IF skin irritation persists, seek medical advice.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Water, dry chemicals, CO ₂
Unsuitable extinguishing media:	Water with full jet
Special hazards arising from the chemical:	Can be released in case of fire: Nitrogen Oxides (NO _x), Carbon Monoxide (CO), Hydrogen Cyanide (HCN)
Precautions for fire-fighters:	A self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	<ul style="list-style-type: none">Mount respiratory protective deviceWear protective equipment. Keep unprotected person awayClean-up should only be performed by trained personnel. Personnel dealing with major spills should wear appropriate protective equipment including, but not limited to, the following items: Gloves, goggles, respiratory protection equipment.
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Environmental precautions:	<ul style="list-style-type: none"> • Dispose contaminated material as waste according to item 13 • Ensure adequate ventilation • Absorb with liquid binding material (sand, acid binders, sawdust etc.) Transfer to a waste container. Keep the material damp and exposed to the air in a secure area until completely solidified. The waste can then be disposed of on an approved landfill or a special refuse dump. Ensure adequate ventilation. • In the event of a large spill, treat spill area with decontamination solution. Preparation of decontamination solution: Prepare a mixture of 0.2 - 0.5% liquid detergent and 3 – 8% concentration ammonium hydroxide in water (5 – 10% sodium carbonate may be substituted for ammonium hydroxide)
Methods and material for containment and cleanup:	<ul style="list-style-type: none"> • Absorb with sawdust, etc., and shovel into container. Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.

Section 7: Handling and Storage

Precautions for safe handling:	<ul style="list-style-type: none"> • Ensure good ventilation/exhaust at workplace • Open and handle receptacle with care • Keep containers tightly sealed • Prevent formation of aerosols • Exhausted ventilation required during spraying or when material is being used at temperatures above 100F • Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or mist. Wash after handling.
Conditions for safe storage, including any incompatibilities:	<ul style="list-style-type: none"> • Requirements to be met by storerooms and Receptacles: Recommended ideal storage temperature ranges: 9 – 77F. Product should not be stored below 40F or above 110F. Material can increase in viscosity if stored at lower temperatures for extended periods of time. • Information about storage in one common storage facility: Store away from foodstuffs. Keep containers tightly closed. Store in cool, dry conditions. • Further information about storage conditions: Protect from frost. Store in dry conditions. Protect from humidity and water. Keep the container tightly sealed.

Section 8: Exposure Controls and PPE

Exposure Limits

Exposure Controls



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General:	Keep away from foodstuffs, beverages, and feed. Wash hands before breaks and at the end of work Store protective clothing separately Avoid contact with the eyes and skin Gasses fumes and aerosols should not be inhaled
Respiratory Protection:	The specific respirator selected must be based on contamination levels of this material found in the workplace and the working limits of the respirator. A supplied air, full-face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self-contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, <i>see OSHA standard 29CFR 1910.134</i> . All equipment must be NIOSH approved and maintained.
Hand, eye, skin, body protection:	Tightly sealed goggles or chemical safety glasses and chemically resistant rubber or plastic gloves. Avoid eye and skin contact. Eye wash system and showers should be available.
Gloves Types:	Neoprene, nitrile rubber, PVC or butyl rubber.

Section 9: Physical and Chemical Properties

Basic chemical and physical properties

Appearance:	Liquid	Flammability:	No
Color:	Yellow	Upper/lower flammability or explosive limits:	N/A
Odor:	Characteristic	Vapor pressure:	N/A
Odor threshold:	N/A	Vapor density:	N/A
pH:	N/A	Liquid Density	1.13 g/cm ³
Melting pt/freezing pt:	<32°F	Solubility(ies):	Slightly soluble in water
Boiling pt/boiling range:	140°F	Partition coefficient (n-octanol/water):	Not Determined
Flash point:	>392°F	Auto-ignition temperature:	Product is not self-igniting
Evaporation rate:	Slower than ether	Decomposition temperature:	N/A

Section 10: Stability and Reactivity

Reactivity	Contact with moisture, other materials that react with isocyanates, or temperatures above 350 may cause polymerization
Possibility of hazardous reactions:	No decomposition if used according to specifications
Conditions to avoid:	No information available
Incompatible materials:	Amines and Alcohols
Hazardous decomposition products:	When burned, CO, CO ₂ , NO _x aliphatic fragments, halogens, halogen acids and possibly carbonyl halides.

Section 11: Toxicological Information



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Acute toxicity:	Sensitization, irritation to skin, mucous membrane, eyes.
Chronic toxicity:	Not available
Likely routes of exposure:	Skin, inhalation, oral
Symptoms related to physical, chemical and toxicological characteristics:	May cause skin irritation
Delayed and immediate effects and chronic effects from short and long-term exposure:	May cause skin sensitization; avoid contact with eyes.

Section 12: Ecological Information

Ecotoxicity:	Aquatic Toxicity - EC50 – 12.5gm/l; LC50 – 164.5 mg/l
Persistence and degradability:	No known significant effects
Bio accumulative potential:	Does not bioaccumulate
Mobility in soil:	

Section 13: Disposal

Waste disposal:	Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations
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Section 14: Transport

UN number:	Not regulated
UN Proper shipping name:	Not regulated
Transport Hazard class(es):	Not regulated
Packing group, if applicable:	Not regulated
Marine pollutant (YorN):	N
Special precautions:	None

Section 15: Regulatory

Relevant safety, health, and environmental regulations

Inventory Status:	All components TSCA listed
US Regulations:	No ingredients listed
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:	No ingredients listed



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Section 16: Other

SDS Preparation Date:	12/7/2021
Revision Date:	

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Section 1: Identification

Product Identifier	
Trade Name:	B-24-120(Activator)
Chemical Name:	Polyurethane Prepolymer
Recommended Use:	Component for the manufacture of Polyurethanes
Restrictions on Use:	

Chemical Manufacturer Information			
Name:	NCFI Polyurethanes	Phone:	(800) 346-8229
Address:	1515 Carter St Mount Airy, NC 27030	Fax:	(336) 789-9586
Website:	www.NCFI.com	Emergency Phone:	CHEMTREC: 800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture:

GHS Classification:	
Resp. Sens. Category 1	Carcinogen, Category 2
STOT RE, Category 2	Acute Toxicity, Category 4
Skin Irritation, Category 2	Eye Irritation, Category 2A
Skin Sensitivity, Category 1	STOT SE, Category 3

GHS Labeling:	
Warning	

Hazard Statements:	
<ul style="list-style-type: none">May Cause allergy or asthma symptoms of breathing difficulties if inhaled	<ul style="list-style-type: none">Suspected of causing cancer
<ul style="list-style-type: none">May cause damage to organs through prolonged or repeated exposure	<ul style="list-style-type: none">Harmful if Swallowed
<ul style="list-style-type: none">Causes skin irritation	<ul style="list-style-type: none">Causes serious eye irritation
<ul style="list-style-type: none">Causes allergic skin reaction	<ul style="list-style-type: none">May cause respiratory irritation

Precautionary Statements:	
Obtain special instructions before use	Do not handle until all safety precautions have been read and understood
Do not breathe dust/fume/gas/mist/vapors/spray	Use only outdoors or in a well-ventilated area
Wash thoroughly after handling	Contaminated work clothing must not be allowed out of the workplace



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Wear protective gloves/protective clothing/eye protection/ face protection	IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF ON SKIN: Wash with plenty of soap and water	Call poison center/doctor if you feel unwell
Specific treatment (see on label)	Get medical advice/attention if you feel unwell
Take off contaminated clothing and wash it before reuse	If skin irritation of skin irritation or rash occurs: Get medical advice/attention
If eye irritation persists: Get medical advice/attention	If experiencing respiratory symptoms: Call a poison center/doctor
Wash contaminated clothing before reuse	Store in a well-ventilated space. Keep container tightly closed. In closed containers, there may be a risk of pressure build up due to water contamination
Store locked up.	Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3: Composition

Hazardous Components

Type of product: Mixture

Section 4: First Aid Measures

General	<ul style="list-style-type: none">Symptoms of poisoning may even occur after several hours; therefore, medical observation is required for at least 48 hours after the accidentMDI Vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Persons with preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TLV with similar symptoms as well as asthmatic attack.
Inhalation:	<ul style="list-style-type: none">In case of unconsciousness, place patient stably inside position for transportation



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	<ul style="list-style-type: none"> In case of respiratory failure or breathing irregularities, commence resuscitation or administer oxygen If inhaled, remove victim from the immediate area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Eye Contact:	<ul style="list-style-type: none"> Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	<ul style="list-style-type: none"> Do NOT induce vomiting; immediately call for medical help.
Most Important symptoms and effects, acute and delayed:	<ul style="list-style-type: none"> Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate the mucous membranes in respiratory tract causing runny nose, sore throat, coughing chest discomfort, shortness of breath and reduced lung function. Persons with preexisting, nonspecific bronchial hyperactivity and respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm, and pulmonary edema. Chemical or hypersensitivity pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible. Acute Skin Contact: Causes irritation with symptoms of reddening, itching, and swelling. Person previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Chronic Skin Contact: Prolonged contact can cause reddening, swelling, rash, and in some cases skin sensitization. Animal test and other research indicate that skin contact with diisocyanates can play a role in causing sensitization and respiratory reaction.
Indication of immediate medical attention and special treatment, if applicable:	<ul style="list-style-type: none"> N/A
Skin Contact:	<ul style="list-style-type: none"> Instantly wash with water and soap and rinse thoroughly. Remove any contaminated clothing. IF skin irritation persists, seek medical advice.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Water, dry chemicals, CO ₂
Unsuitable extinguishing media:	Water with full jet



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Special hazards arising from the chemical:	Can be released in case of fire: Nitrogen Oxides (NO _x), Carbon Monoxide (CO), Hydrogen Cyanide (HCN)
Precautions for fire-fighters:	A self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	<ul style="list-style-type: none">• Mount respiratory protective device• Wear protective equipment. Keep unprotected person away• Clean-up should only be performed by trained personal. Personnel dealing with major spills should wear appropriate protective equipment including, but no limited to, the following items: Gloves, goggles, respiratory protection equipment.
Environmental precautions:	<ul style="list-style-type: none">• Dispose contaminated material as waste according to item 13• Ensure adequate ventilation• Absorb with liquid binding material (sand, acid binders, sawdust etc.) Transfer to a waste container. Keep the material damp and exposed to the air in a secure area until completely solidified. The waste can then be disposed of on an approved landfill or a special refuse dump. Ensure adequate ventilation.• In the event of a large spill, treat spill area with decontamination solution. Preparation of decontamination solution: Prepare a mixture of 0.2 - 0.5% liquid detergent and 3 – 8% concentration ammonium hydroxide in water (5 – 10% sodium carbonate may be substituted for ammonium hydroxide)
Methods and material for containment and cleanup:	<ul style="list-style-type: none">• Absorb with sawdust, etc., and shovel into container. Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.

Section 7: Handling and Storage

Precautions for safe handling:	<ul style="list-style-type: none">• Ensure good ventilation/exhaust at workplace• Open and handle receptacle with care• Keep containers tightly sealed• Prevent formation of aerosols• Exhausted ventilation required during spraying or when material is being used at temperatures above 100F• Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or mist. Wash after handling.
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Conditions for safe storage, including any incompatibilities:	<ul style="list-style-type: none">• Requirements to be met by storerooms and Receptacles: Recommended ideal storage temperature ranges: 9 – 77F. Product should not be stored below 40F or above 110F. Material can increase in viscosity if stored at lower temperatures for extended periods of time.• Information about storage in one common storage facility: Store away from foodstuffs. Keep containers tightly closed. Store in cool, dry conditions.• Further information about storage conditions: Protect from frost. Store in dry conditions. Protect from humidity and water. Keep the container tightly sealed.
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Section 8: Exposure Controls and PPE

Exposure Limits

Exposure Controls

General:	Keep away from foodstuffs, beverages, and feed. Wash hands before breaks and at the end of work Store protective clothing separately Avoid contact with the eyes and skin Gasses fumes and aerosols should not be inhaled
Respiratory Protection:	The specific respirator selected must be based on contamination levels of this material found in the workplace and the working limits of the respirator. A supplied air, full-face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self-contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, <i>see OSHA standard 29CFR 1910.134</i> . All equipment must be NIOSH approved and maintained.
Hand, eye, skin, body protection:	Tightly sealed goggles or chemical safety glasses and chemically resistant rubber or plastic gloves. Avoid eye and skin contact. Eye wash system and showers should be available.
Gloves Types:	Neoprene, nitrile rubber, PVC or butyl rubber.

Section 9: Physical and Chemical Properties

Basic chemical and physical properties

Dalton, GA

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Appearance:	Liquid	Flammability:	No
Color:	Yellow	Upper/lower flammability or explosive limits:	N/A
Odor:	Characteristic	Vapor pressure:	N/A
Odor threshold:	N/A	Vapor density:	N/A
pH:	N/A	Liquid Density	1.13 g/cm ³
Melting pt/freezing pt:	<32°F	Solubility(ies):	Slightly soluble in water
Boiling pt/boiling range:	140°F	Partition coefficient (n-octanol/water):	Not Determined
Flash point:	>392°F	Auto-ignition temperature:	Product is not self-igniting
Evaporation rate:	Slower than ether	Decomposition temperature:	N/A

Section 10: Stability and Reactivity

Reactivity	Contact with moisture, other materials that react with isocyanates, or temperatures above 350 may cause polymerization
Possibility of hazardous reactions:	No decomposition if used according to specifications
Conditions to avoid:	No information available
Incompatible materials:	Amines and Alcohols
Hazardous decomposition products:	When burned, CO, CO ₂ , NO _x aliphatic fragments, halogens, halogen acids and possibly carbonyl halides.

Section 11: Toxicological Information

Acute toxicity:	Sensitization, irritation to skin, mucous membrane, eyes.
Chronic toxicity:	Not available
Likely routes of exposure:	Skin, inhalation, oral
Symptoms related to physical, chemical and toxicological characteristics:	May cause skin irritation
Delayed and immediate effects and chronic effects from short and long-term exposure:	May cause skin sensitization; avoid contact with eyes.

Section 12: Ecological Information

Ecotoxicity:	Aquatic Toxicity - EC50 – 12.5gm/l; LC50 – 164.5 mg/l
Persistence and degradability:	No known significant effects
Bio accumulative potential:	Does not bioaccumulate
Mobility in soil:	



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Section 13: Disposal

Waste disposal:	Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations
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Section 14: Transport

UN number:	Not regulated
UN Proper shipping name:	Not regulated
Transport Hazard class(es):	Not regulated
Packing group, if applicable:	Not regulated
Marine pollutant (YorN):	N
Special precautions:	None

Section 15: Regulatory

Relevant safety, health, and environmental regulations

Inventory Status:	All components TSCA listed
US Regulations:	No ingredients listed
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:	No ingredients listed

Section 16: Other

SDS Preparation Date:	12/7/2021
Revision Date:	

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Mount Airy, NC

Houston, TX

Section 1: Identification

Product Identifier

Trade Name: A-24-120 (Stabilizer)
Chemical Name: Diphenylmethane Diisocyanate (MDI)
Recommended Use: Component for production of polyurethanes
Restrictions on Use:

Chemical Manufacturer Information

Name: NCFI Polyurethanes	Phone: (800) 346-8229
Address: 1515 Carter St Mount Airy, NC 27030	Fax: (336) 789-9586
Website: www.NCFI.com	Emergency Phone: CHEMTREC: 800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture

GHS Classification:	
• Skin irritation, Category 2	• Acute toxicity, Inhalative, Category 4
• Sensitization of respiratory airways, Category 1	• Eye irritation, Category 2
• Carcinogenicity, Category 2	• Sensitization of the skin, Category 1
• Specific target organ toxicity (repeated exposure), Category 2	• Specific target organ toxicity (single exposure), Category 3

GHS Labeling:



Danger



Warning

Hazard Statements:	
• May cause an allergic skin reaction	• Causes skin irritation
• Harmful if inhaled	• Causes serious eye irritation
• May cause respiratory irritation	• May cause allergy or asthma symptoms or breathing difficulties if inhaled
• May cause damage to organs through prolonged or repeated exposure	• Suspected of causing cancer

Precautionary Statements:	
• Do not breathe dust/fume/gas/mist/vapors/spray	• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
• Wear protective gloves/eye protection/face protection	• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• IF ON SKIN: Wash with plenty of soap and water	

Other Hazards: Persons with respiratory conditions should avoid handling this product.



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Section 3: Composition

Hazardous Components

Type of product: substance

CAS#	Weight %	Name
101-68-8	Trade secret	Diphenylmethane-4,4'-diisocyanate (MDI)
5873-54-1	Trade secret	Diphenylmethane-2,4'-diisocyanate (MDI)
9016-87-9	Trade secret	P-MDI
26447-40-5	< 4%	Diphenylmethane Diisocyanate (MDI) Mixed Isomers
Proprietary	< 1%	Tertiary Amine Trade Secret

Section 4: First Aid Measures

General:	Remove contaminated clothing
Inhalation:	Remove affected individual to fresh air and keep person calm. Assist in breathing if necessary. Immediate medical attention required.
Skin Contact:	Wash affected areas with soap and water. Seek medical attention for irritation.
Eye Contact:	Rinse for at least 15 minutes with water. Immediate medical attention required.
Ingestion:	Rinse mouth and drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Water, dry chemicals, CO ₂
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the chemical:	At temperatures above 400°F, MDI can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Avoid water contamination in closed containers which may cause rupture (CO ₂ is evolved).
Precautions for firefighters:	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater
Methods/material for containment and cleanup:	Remove mechanically; cover remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO ₂ ?). Keep damp in a safe ventilated area for several days.

Spill area can be decontaminated with the following recommended decontamination solution:

Decontamination Solution #1: 8-10% sodium carbonate and 2% liquid soap in water

Decontamination Solution #2: Liquid/yellow soap (potassium soap with ~15% anionic surfactant): 20 ml; Water: 700 ml;
Polyethylene glycol (PEG 400): 350 ml



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Section 7: Handling and Storage

Precautions for safe handling:	Provide sufficient air exchange and/or exhaust in work rooms. Occupational exposure limits should not be exceeded (refer to Section 8). Contact with skin and eyes and inhalation of vapors must be avoided. Keep away from foodstuffs, drinks, and tobacco. Wash hands before breaks and at end of work.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed and protect against moisture. Segregate from bases. Store from 32°F – 110°F.

Section 8: Exposure Controls and PPE

Exposure Limits

Component	Type	Value
P-MDI	OSHA PEL	CLV 0.02 ppm 0.2 mg/m ³
Diphenylmethane-4,4'-diisocyanate (MDI)	OSHA PEL	CLV 0.02 ppm 0.2 mg/m ³

Exposure Controls

Respiratory Protection:	Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.
Hand, eye, skin, body protection:	Chemical resistant protective gloves should be worn to prevent all skin contact. Wear eye/face protection. Wear suitable protective clothing

Section 9: Physical and Chemical Properties

Basic chemical and physical properties

Appearance:	liquid	Flammability	not applicable
Color	Brown	Upper/lower flammability or explosive limits	
Odor	Slightly aromatic	Vapor pressure	0.00016 mmHg
Odor threshold	not established	Vapor density	not established
pH	not established	Relative density	1.13
Melting pt/freezing pt	3° C	Solubility(ies)	Reacts with water
Boiling pt/boiling range	625°F	Partition coefficient (n-octanol/water)	not established
Flash point	390°F	Auto-ignition temperature	not applicable
Evaporation rate	not established	Decomposition temperature	not established

Section 10: Stability and Reactivity

Chemical stability:	Polymerizes at about 200°C with evolution of CO ₂
Possibility of hazardous reactions:	Exothermic reaction with amines and alcohols; reacts with water forming CO ₂ ; in closed containers, risk of bursting owing to increase of pressure
Conditions to avoid:	Avoid moisture
Incompatible materials:	water, alcohols, strong bases, amines
Hazardous decomposition products:	By high heat or fire; CO, CO ₂ , NO _x , benzene, toluene, aliphatic fragments and traces of HCN



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Section 11: Toxicological Information

Acute toxicity (inhalation):	LC50: 490mg/kg , vapor, 4hr rat
Chronic toxicity:	2 years, inhalation; NOAEL: 0.2mg/m3, (rat, Male/Female, 6hrs/day 5 days/week)
Likely routes of exposure:	Skin, inhalation
Symptoms related to physical, chemical and toxicological characteristics:	Minor skin irritation; asthma-like symptoms
Delayed and immediate effects and chronic effects from short and long-term exposure:	Possible sensitization
Numerical toxicity measures:	

Section 12: Ecological Information

Ecotoxicity:	LC0: >1,000mg/l (Zebra fish 96 hrs) LC0: >3,000mg.l (Killifish 96hrs)
Persistence and degradability:	0%
Bioaccumulative potential:	Does not bioaccumulate
Mobility in soil:	

Section 13: Disposal

Waste disposal:	Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system. Do not burn empty drums or cut open with gas or an electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.
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Section 14: Transport

Land transport

USDOT	Not classified as dangerous good
China	Not classified as dangerous good

Sea transport

IMDG	Not classified as dangerous good
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Air transport

IATA/ICAO	Not classified as dangerous good
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Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Refer to Section 15 for the RQ of this product.



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Section 15: Regulatory

Relevant safety, health, and environmental regulations:	
Inventory Status:	TSCA listed
US Regulations:	Not regulated
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:	Methylene Bis Phenylisocyanate 101-68-8 5000 lbs. See SDS – A Component (Same as Diphenylmethane diisocyanate (MDI) Polymeric Diphenylmethane diisocyanate 9016-87-9 See SDS – A Component

Section 16: Other

SDS Preparation Date:	04/15/2020
Revision Date:	

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