



SAFETY DATA SHEET

RPD INFORMATION

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Phone 763-497-2071 or 800-497-2071

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RPD PRODUCT INFORMATION

RPD is an authorized distributor

Item Number	Description
248-000	Head & Neck Support, Timo Foam (A-F, 6/set)
248-001	Head & Neck Support, Timo Foam 'A'
248-002	Head & Neck Support, Timo Foam 'B'
248-003	Head & Neck Support, Timo Foam 'C'
248-004	Head & Neck Support, Timo Foam 'D'
248-005	Head & Neck Support, Timo Foam 'E'
248-006	Head & Neck Support, Timo Foam 'F'

MSDS 248-000 Revision Date 11/2016



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Dalton, GA

Hickory, NC

Mount Airy, NC

Salt Lake City, UT

Section 1: Identification

Product Identifier

Trade Name:

A-31-070

Chemical Name:

Diphenylmethane Diisocyanate (MDI)

Recommended Use:

Component for production of polyurethanes

Restrictions on Use:

Chemical Manufacturer Information

Name: Address:

Website:

NCFI Polyurethanes

1515 Carter St Mount Airy, NC 27030

www.NCFI.com

Phone:

(800) 346-8229

Fax: **Emergency Phone:**

(336) 789-9586 CHEMTREC: 800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture

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

 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 it inhaled
 May cause damage to organs through prolonged or repeated exposure 	Suspected of causing cancer

•	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	30-60%	Diphenylmethane-4,4'-diisocyanate (MDI)	
59675-67-1		4,4'-MDI HOMOPOLYMER/GLY/EO/PO (NCO-ENDED)	
25686-28-6	13-30%	Homopolymer of Diphenylmethane diisocyanate	

Section 4: First Aid Measures

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

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Carbon dioxide, foam, dry chemical, water spray
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the chemical:	No specific hazard
	Firefighters should wear NFPA compliant firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood boots, and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:	Evacuate non-emergency personnel. Isolate the area and prevent access. Remove ignition sources. Notify management, Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater
Methods/material for containment and cleanup: pill area can be decontaminated with the following re-	Cover spill area with suitable absorbent material (earth, sand, etc.) Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide to escape.

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 62.6F – 86F.

Section 8: Exposure Controls and PPE

Exposure Limits

Component	Type	Value
Diphenylmethane-diisocyanate (MDI)	0.0**	CLV 0.02 ppm 0.2 mg/m3

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	пострынсане
Odor	earthy, musty	Vapor pressure	<0.0001
Odor threshold	not established	Vapor density	<0.0001 mmHg
pH	not established	Relative density	not established
Melting pt/freezing pt	3°C	Solubility(ies)	1.17
Boiling pt/boiling range	406.4°F		Reacts with water
Flash point	388.4°F	Partition coefficient (n-octanol/water)	not established
Evaporation rate	7.7.7.	Auto-ignition temperature	not applicable
Evaporation rate	not established	Decomposition temperature	not established

Section 10: Stability and Reactivity

Chemical stability:	Stable under normal conditions of use and storage.
Possibility of hazardous reactions:	Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F may cause polymerization.
Conditions to avoid:	Avoid high temperatures
Incompatible materials:	water, alcohols, strong bases, amines, copper alloys
Hazardous decomposition products:	By fire and heat: Carbon Dioxide, Carbon Monoxide, iodides of nitrogen, dense black smoke, isocyanate, isocyanic acid, other undetermined compounds.



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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 (Same as Diphenylmethane diisocyanate (MDI) Polymeric Diphenylmethane diisocyanate 9016-87-9

Section 16: Other

SDS Preparation Date:	04/08/2016	
Revision Date:	11/04/2016	

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Section 1: Identification

Product Identifier

Trade Name:

R-31-070

Chemical Name:

Polyurethane Resin

Recommended Use:

Component for the manufacture of Polyurethanes

Restrictions on Use:

Chemical Manufacturer Information

Name: Address:

Website:

NCFI Polyurethanes

1515 Carter St Mount Airy, NC 27030

www.NCFI.com

Phone:

(800) 346-8229

Fax:

(336) 789-9586

Emergency Phone:

CHEMTREC: 800-424-9300

Section 2: Hazard Identification

Classification of the substance or mixture:

GHS Classification:		
Skin irritation, Category 3	Eye irritation, Category 2	

GHS Labeling:



WARNING

Ha	zard Statements:			
•	May cause skin irritation	•	May cause eye irritation	
•	May cause respiratory irritation			

0	Do not breathe fume/gas/mist/vapors/spray	•	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 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		

Other Hazards:



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Section 3: Composition

Hazardous Components

Type of product: Mixture

CAS#	Weight %	Name	
Proprietary	<1	Tertiary amine catalysts	
107-21-1	<6	Ethylene Glycol	
102687-65-0	8	Trans-1-Chloro-3,3,3-trifluoropropene (CF3HC=CHCl or HFO-1233zd))	

Section 4: First Aid Measures

Inhalation:	Move to fresh air if symptoms develop. If breathing is difficult, give oxygen and call physician.		
Eye Contact:	Flush with water for at least 15 minutes. See a physician if irritation develops.		
Ingestion:	Induce vomiting; get medical attention.		
Most Important symptoms and effects, acute and delayed:	May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation, and may result in cardiac sensitization.		
Indication of immediate medical attention and special treatment, if applicable:	N/A		
Skin Contact:	Wash with soap and water at first opportunity.		

Section 5: Fire-Fighting Measures

Suitable extinguishing media:	Water, dry chemicals, CO ₂	
Unsuitable extinguishing media:	None	
Special hazards arising from the chemical:	Overheated containers may rupture due to pressure produced by CF3CH2CHF2. CF3CH2CHF2 burns to form acids and noxious gases.	
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	Clear area. Ensure adequate ventilation. Wear suitable personal		
emergency procedures:	protective clothing and equipment.		
Environmental precautions:	Do not discharge into drains/surface waters/groundwater		
Methods and material for containment and cleanup:	Absorb with sawdust, etc., and shovel into container. Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.		



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Section 7: Handling and Storage

Precautions for safe handling:	Store between 65°F and 85°F out of sunlight. Relieve pressure slowly when opening container. Under no circumstances should empty drums be burned or cut open with an electric or gas torch.	
Conditions for safe storage, including any incompatibilities:	Keep tightly sealed.	

Section 8: Exposure Controls and PPE

Exposure Limits

Component:	Туре	Value
Tertiary Amine Catalysts ¹	TWA	None established
Ethylene Glycol ¹	TWA	50ppm
Trans-1-Chloro-3,3,3-trifluoropropene (CF3HC=CHCl or HFO-1233zd)	TWA	300ppm recommended

Not listed as a carcinogen (NTA, IARC, OSHA)

Exposure Controls

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</i> 29CFR 1910.134. All equipment must be NIOSH approved and maintained.
Hand, eye, skin, body protection:	Wear 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.

Section 9: Physical and Chemical Properties

Basic chemical and physical properties

Appearance:	Liquid	Flammability:	N/A
Color:	Amber	Upper/lower flammability or explosive limits:	N/A
Odor:	Ethereal odor	Vapor pressure:	N/A
Odor threshold:	N/A	Vapor density:	N/A
рН:	N/A	Relative density:	1.054/mL
Melting pt/freezing pt:	<32°F	Solubility(ies):	slightly soluble in water
Boiling pt/boiling range:	60°F	Partition coefficient (noctanol/water):	N/A
Flash point:	>200°F	Auto-ignition temperature:	>500°F
Evaporation rate:	Slower than ether	Decomposition temperature:	>500°F



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Section 10: Stability and Reactivity

Chemical stability:	Stable	
Possibility of hazardous reactions:	N/A	
Conditions to avoid:	N/A	
Incompatible materials:	Isocyanates and other chemicals that react with hydroxyl groups.	
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:	May cause skin irritation
Chronic toxicity:	Not available
Likely routes of exposure:	Skin
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 irritation; avoid contact with eyes
Numerical toxicity measures:	Not available

Section 12: Ecological Information

Ecotoxicity:	Not a marine pollutant
Persistence and degradability:	No known significant effects
Bioaccumulative potential:	Does not bioaccumulate
Mobility in soil:	

Section 13: Disposal

Waste disposal:	R component drums can be sent to drum reconditioners or disposed of as ordinary industrial waste in compliance	
	with pertinent regulations	

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



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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)	No ingredients listed
Title III Section 313 information:	100)

Section 16: Other

SDS Preparation Date:	04/08/2016
Revision Date:	11/04/2016
Revision Date 2:	12/27/2016

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