

Issue Date 11-Mar-2013

Revision Date: 10-Jun-2015

Version 2

1. IDENTIFICATION

Product Identifier

Product Name United 541A NOMIX

Other means of identification

SDS # UNITED-541A

Recommended use of the chemical and restrictions on use

Recommended Use Concrete Repair

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com
www.unitedlabsinc.ca

Emergency Telephone Number

Company Phone Number 800-323-2594 (to reorder)
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin Sensitization	Category 1
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Label elements

Signal word WARNING

Hazard statements

May cause an allergic reaction.
Toxic to aquatic life with long lasting effects.



Appearance Cloudy gray liquid

Physical State Liquid

Odor Faint Scent

Emergency Overview**Precautionary Statements - Prevention**

Avoid breathing mist, vapor and spray.

Wear eye and face protection.

Avoid release to the environment.

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight%
Di-(methylthio)toluenediamine	106264-79-3	10-15
N,N,N',N'-Tetrakis(2-hydroxypropyl)ethylenediamine	102-62-3	≤10
N,N'-diakylamino-diphenylmethane	5282-60-9	≤5

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Immediately flush eyes with plenty of water. Seek medical attention if irritation persists.
Skin Contact	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if rash or irritation occurs.
Inhalation	Move person to fresh air.
Ingestion	Do not induce vomiting. Give one or two glasses of water to drink. Never give anything by mouth to an unconscious person. If large amounts are swallowed, consult a physician.

Most important symptoms and effects

Symptoms	No information available.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion Products Carbon oxides.

Protective equipment and precautions for firefighters

Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Methods and material for containment and cleaning up

Methods for Clean-Up Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent, earth, sand or any other inert material. Place in a chemical waste container.
 Large spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. May be a slipping hazard. Create a dike or trench to contain product. Prevent entry into waterways, sewers, basements or confined areas. Absorb with dry chemical absorbent, earth, sand or any other inert material. Place in a chemical waste container.

Special Protective Equipment Wear protective equipment.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flames.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight. Store in temperatures 4.4°C (40°F) minimum to 37.8°C (100°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear a face shield and chemical safety glasses or goggles.

Skin and Body Protection Wear impervious gloves. Cover exposed skin.

Respiratory Protection None required under normal use.

General Hygiene Considerations Avoid eating, drinking or smoking while using this material. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Faint Scent
Appearance	Cloudy gray liquid	Odor Threshold	Not determined
Color	Cloudy gray		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined/ 0°C(32°F)	
Boiling Point/Boiling Range	>148.9°C (300°F)	
Flash Point	>93.3°C (200°F)	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	

Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.04-1.10	(1=Water)
Water Solubility	Partial	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	1400 to 1700 Centipoise	
Property	Values	Remarks • Method
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	None	

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Heat, flames, and sparks.

Incompatible Materials

Strong oxidizers and acids.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal
Di-(methylthio)toluenediamine	1515mg/kg	>2000mg/kg
N,N,N',N'-Tetrakis(2-Hydroxylpropyl) Ethylenediamine	3280mg/kg	>2000mg/kg
N,N'-dialkylamino-diphenylmethane	1400mg/kg	3090mg/kg

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

IARC: Not regulated as a carcinogen.

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is toxic to aquatic organisms and can cause long term adverse effects in the aquatic environment.

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal Method

Dispose in accordance with local, state, provincial or national regulations.

Empty Container

Decontaminate and pass to an approved drum recycler or destroy.

RCRA/EPA Waste Information

If discarded in its purchased form, this material is not a RCRA hazardous waste.

General Comments

The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers or waterways.

14. TRANSPORT INFORMATION

Note In a container 119 gallons or less, this product is not regulated for ground transportation.

DOT

Proper Shipping Name Environmentally hazardous substance, liquid, NOS
UN/NA Number UN3082
Packing Group III

IATA Not regulated

IMDG

Shipping Name Environmentally hazardous substance, liquid, NOS
UN/NA Number UN3082
Packing Group III
Primary Hazard Class/Division Class 9
Marine Pollutant Yes, If less than or equal to 5 liters can go as a limited quantity.

15. REGULATORY INFORMATION

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA

All components are in TSCA inventory.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	-	-	-	-
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	*2	1	1	n&p

Issue Date	11-Mar-2013
Revision Date:	10-Jun-2015
Revision Note	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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Product Identifier

Product Name United 541B NOMIX

Other means of identification

SDS # UNITED-541B

Recommended use of the chemical and restrictions on use

Recommended Use Concrete Repair

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2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity (Inhalation)	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Target Organ Toxicity (single exposure)	Category 3
Target Organ Toxicity (Repeated exposure)	Category 2

Label elements

Signal word DANGER

Hazard statements

May cause a respiratory reaction.
Cause skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause damage to respiratory system through prolonged or repeated exposure.

**Appearance** Pale yellow liquid**Physical State** Liquid**Odor** Faint Scent**Emergency Overview****Precautionary Statements - Prevention**

Do not breathe mist, vapor or spray.

Wash hands thoroughly after handling.

Use only outdoors or in well-ventilated area.

Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight%
Polymeric diphenylmethane diisocyanate	9016-87-9	30-35
MDI Prepolymer	112898-48-3	30-34
Diphenylmethane diisocyanate mixed isomers	26449-10-5	13-21
4,4'-Diphenylmethane diisocyanate	101-68-8	12-20

4. FIRST-AID MEASURES**First Aid Measures****Eye Contact**

Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical attention if irritation persists.

Skin Contact

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if rash or irritation occurs.

Inhalation

Move person to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. Obtain medical attention. Symptoms can be delayed for several hours.

Ingestion

Give one or two glasses of water to drink. Never give anything by mouth to an unconscious person. Obtain immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

Most important symptoms and effects

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides, Isocyanates and trace amounts of hydrogen cyanide.

Explosion Hazards

Water contamination produces carbon dioxide gases. This may cause pressurization or explosion of containers.

Protective equipment and precautions for firefighters

Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Methods and material for containment and cleaning up**Methods for Clean-Up**

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent, earth, sand or any other inert material. Place in a chemical waste container. Allow to stand uncovered 48 hours before closing container.
Large spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. May be a slipping hazard. Create a dike or trench to contain product. Prevent entry into waterways, sewers, basements or confined areas. Absorb with dry chemical absorbent, earth, sand or any other inert material. Place in a chemical waste container. Allow to stand uncovered 48 hours before closing container.

General Procedure

Clean spill area with a decontamination solution.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on Safe Handling**

Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flames.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store in a cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight. Store in temperatures 4.4°C (40°F) minimum to 37.8°C (100°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

OSHA Hazardous Components		Exposure Limits			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m ³	ppm	mg/m ³
4,4"-Diphenylmethane diisocyanate	TWA	0.02 Ceiling	0.20 Ceiling	0.005	0.051

Engineering controls

Local exhaust ventilation used in combination with general ventilation as a necessary to control air contaminants.

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Wear a face shield and chemical safety glasses or goggles.
- Skin and Body Protection** Wear impervious gloves. Cover exposed skin.
- Respiratory Protection** For airborne exposure above the permissible exposure limit(s), wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.
- General Hygiene Considerations** Avoid eating, drinking or smoking while using this material. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Faint Scent
Appearance	Pale yellow liquid	Odor Threshold	Not determined
Color	Pale yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	>93.3°C (200°F)	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Heavier than air	
Specific Gravity	1.15-1.17	(1=Water)
Water Solubility	Insoluble, reacts with water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	650 to 850 Centipoise	
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Stable.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Temperatures above 300°F (148.9°C)

Incompatible Materials

Amines, strong acids, strong bases, oxidizing agents and peroxides.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides. Isocyanates and trace amounts of hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Polymeric diphenylmethane diisocyanate	>10000mg/kg	>9400mg/kg	310mg/m ³ /4h
4,4'-Diphenylmethane diisocyanate	>10000mg/kg	>9400mg/kg	0.49mg/L/4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

IARC: Not regulated as a carcinogen.

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

Sensitization

This material is a skin and respiratory sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is toxic to aquatic life.

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal Method

Dispose in accordance with local, state, provincial or national regulations.

Empty Container

Decontaminate and pass to an approved drum recycler or destroy.

RCRA/EPA Waste Information

If discarded in its purchased form, this material is not a RCRA hazardous waste.

General Comments

The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers or waterways.

14. TRANSPORT INFORMATION

DOT Not regulated
IATA Not regulated
IMDG Not regulated

15. REGULATORY INFORMATION

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

SARA 313

Chemical Name	Wt. %	Cas-No	Comments
Polymeric diphenylmethane diisocyanate	30-35	9016-87-9	Diisocyanates category
4,4'-Diphenylmethane diisocyanate	12-20	101-68-8	Diisocyanates category

CERCLA

Chemical Name	Wt. %	CERCLA RQ
4,4'-Diphenylmethane diisocyanate	12-20	5000lbs.

TSCA

All components are in TSCA inventory.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	-	-	-	-
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	*2	1	1	n&p

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End of Safety Data Sheet