

CONATHANE® EN-1554 PART A Urethane Prepolymer

Version 1 Revision Date 02/19/2018 Print Date 02/19/2018

SECTION 1. IDENTIFICATION

Product name : CONATHANE® EN-1554 PART A Urethane Prepolymer

Manufacturer or supplier's details

Company : ELANTAS PDG, INC.

5200 North 2nd Street St. Louis MO 63147 (314) 621-5700

Telephone : (314) 621-5700 Visit our web site : www.elantas.com

E-mail address : Todd.Thomas@altana.com Emergency telephone : INFOTRAC - 1-800-535-5053

number

Recommended use of the chemical and restrictions on use

Recommended use : Casting Resin

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 2

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410 Pike Road • Huntingdon Valley, PA 19006

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.



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H351 Suspected of causing cancer.

Precautionary statements : **Prevention**:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P285 In case of inadequate ventilation wear respiratory

protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P311 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Isocyanate Prepolymer

Hazardous components

Component	CAS-No.	Concentration (%)



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 Toluene diisocyanate
 584-84-9
 >= 10 - < 11</th>

 2-Methyl-m-phenylene diisocyanate
 91-08-7
 >= 0.1 - < 1</td>

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control centre immediately.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Store under conditions specified on the product Technical

Data Sheet to maintain product quality.

Prevent unauthorized access.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	



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		exposure)	Permissible concentration	
Toluene diisocyanate	584-84-9	TWA	0.005 ppm	ACGIH
Toluene diisocyanate		STEL	0.02 ppm	ACGIH
Toluene diisocyanate		С	0.02 ppm 0.14 mg/m3	OSHA Z-1
Toluene diisocyanate		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
Toluene diisocyanate		STEL	0.02 ppm 0.15 mg/m3	OSHA P0
2-Methyl-m-phenylene diisocyanate	91-08-7	TWA	0.005 ppm	ACGIH
2-Methyl-m-phenylene diisocyanate		STEL	0.02 ppm	ACGIH
2-Methyl-m-phenylene diisocyanate		С	0.02 ppm 0.14 mg/m3	OSHA Z-1
2-Methyl-m-phenylene diisocyanate		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
2-Methyl-m-phenylene diisocyanate		STEL	0.02 ppm 0.15 mg/m3	OSHA P0

Engineering measures : Use with adequate ventilation.

All application areas should be ventilated in accordance with

applicable OSHA regulations. (29 CFR 1910.94) Isocyanates may be released during the curing process. Repeated overexposure to isocyanates can cause respiratory

tract sensitization.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling

the product.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: No data available

Vapour pressure : No data available

Flash point : $> 201 \,^{\circ}\text{F} \, (> 94 \,^{\circ}\text{C})$

Method: No information available.

Information taken from reference works and the literature.

Upper explosion limit : No data available

Lower explosion limit : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Relative vapour density : No data available

Relative Density/Specific

Gravity

: No data available

Density : 1.05 g/cm3 (77 °F (25 °C))

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity



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Viscosity, dynamic : No data available

Viscosity, kinematic : > 22 mm2/s (104 °F (40 °C))

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Hazardous decomposition

products

: Carbon monoxide in a fire. Nitrogen oxides in a fire.

Isocyanates

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute toxicity

Product:

Acute inhalation toxicity : Acute toxicity estimate : 4.76 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

584-84-9 Toluene diisocyanate:

Acute oral toxicity : LD50 (Rat): 5,800 mg/kg

LD50 (Rat, male): 5,110 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 14 ppm

Acute dermal toxicity : LD50 (Rabbit): > 9,400 mg/kg

LD50 (Rabbit, male and female): > 9,400 mg/kg

Method: OECD Test Guideline 402

91-08-7 2-Methyl-m-phenylene diisocyanate:

Acute oral toxicity : LD50 (Rat): 5,800 mg/kg



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Acute inhalation toxicity : LC50 : Remarks: No data available

Acute dermal toxicity : LD50 : Remarks: No data available

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

584-84-9 Toluene diisocyanate:

Species: Rabbit

Result: Moderate skin irritation

91-08-7 2-Methyl-m-phenylene diisocyanate:

Species: Rabbit

Result: Moderate skin irritation

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

584-84-9 Toluene diisocyanate:

Species: Rabbit Result: Eye irritation

91-08-7 2-Methyl-m-phenylene diisocyanate:

Species: Rabbit Result: Eye irritation

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

Toluene diisocyanate 584-84-9

2-Methyl-m-phenylene 91-08-7

diisocyanate

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential



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carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP Reasonably anticipated to be a human carcinogen

Toluene diisocyanate 584-84-9

2-Methyl-m-phenylene 91-08-7

diisocyanate

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

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

: No data available



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

: WC: B

EPA Hazardous Waste

Code(s)

: D003: Reactive

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 2206

Proper shipping name : Isocyanates, toxic, n.o.s.

(Toluene diisocyanate)

Class : 6.1
Packing group : II
Labels : Toxic
Packing instruction (cargo : 662

aircraft)

Packing instruction : 654

(passenger aircraft)

IMDG-Code

UN number : UN 2206

Proper shipping name : ISOCYANATES, TOXIC, N.O.S.

(TOLUENE DIISOCYANATE)

Class : 6.1
Packing group : II
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR



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UN/ID/NA number : UN 2206

Proper shipping name : Isocyanates, toxic, n.o.s.

(Toluene diisocyanate)

Class : 6.1
Packing group : II
Labels : Toxic
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Toluene diisocyanate	584-84-9	100	951

SARA 304 - Emergency Release Notification

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
Toluene diisocyanate	584-84-9	100	951	

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Toluene diisocyanate	584-84-9	100	951

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA

harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for

reporting purposes.

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

Toluene diisocyanate 584-84-9 10.5 %

2-Methyl-m-phenylene 91-08-7 .4 %

diisocyanate



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SARA 313 : This product contains the following toxic chemical(s) subject

to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and

40 CFR part 372.

Toluene diisocyanate 584-84-9 10.5 %

2-Methyl-m-phenylene 91-08-7 .4 %

diisocyanate

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Toluene diisocyanate 584-84-9 10.5 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental

Release Prevention (40 CFR 68.130, Subpart F):

Toluene diisocyanate 584-84-9 10.5 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or

Final VOC's (40 CFR 60.489):

Toluene diisocyanate 584-84-9 10.5 %

Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

US State Regulations

Massachusetts Right To Know

Toluene diisocyanate 584-84-9 2-Methyl-m-phenylene diisocyanate 91-08-7 Ethyl acrylate 140-88-5

Pennsylvania Right To Know

Polyurethane Pre-Polymer

Toluene diisocyanate 584-84-9
2-Methyl-m-phenylene diisocyanate 91-08-7
Benzoyl Chloride 98-88-4

New Jersey Right To Know

Polyurethane Pre-Polymer

Toluene diisocyanate 584-84-9 2-Methyl-m-phenylene diisocyanate 91-08-7

New Jersey Trade Secret

Registry Number for the product (NJ TSRN)

: Not Applicable

California Prop 65

WARNING! This product contains a chemical known to the

State of California to cause cancer.



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Ethyl acrylate 140-88-5

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

Toluene 108-88-3

The components of this product are reported in the following inventories:

TSCA : We certify that all of the components of this product are either

listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

Section 5 Not applicable

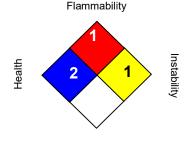
DSL : We certify that all of the components of this product are listed

on the DSL.

SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Revision Date : 02/19/2018

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 a 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.



CONATHANE® EN-1554 Part B Black Curative

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SECTION 1. IDENTIFICATION

Product name : CONATHANE® EN-1554 Part B Black Curative

Manufacturer or supplier's details

Company : ELANTAS PDG, INC.

5200 North 2nd Street St. Louis MO 63147 (314) 621-5700

Telephone : (314) 621-5700 Visit our web site : www.elantas.com

E-mail address : Todd.Thomas@altana.com Emergency telephone : INFOTRAC - 1-800-535-5053

number

Recommended use of the chemical and restrictions on use

Recommended use :

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Carcinogenicity : Category 1B

GHS label elements

Hazard pictograms :





chemical-concepts.com

B00.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H350 May cause cancer.

Precautionary statements : **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.



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P308 + P313 IF exposed or concerned: Get medical advice/

attention. **Storage:**

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration (%)
2,2'-dichloro-4,4'-methylenedianiline	101-14-4	>= 28 - < 29
Carbon black	1333-86-4	>= 0.1 -<1

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing : High volume water jet



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media

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Store under conditions specified on the product Technical

Data Sheet to maintain product quality.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
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		(Form of exposure)	parameters / Permissible concentration	
2,2'-dichloro-4,4'- methylenedianiline	101-14-4	TWA	0.01 ppm	ACGIH
		TWA	0.02 ppm 0.22 mg/m3	OSHA P0
Carbon black	1333-86-4	TWA	3.5 mg/m3	ACGIH
		TWA	3.5 mg/m3	OSHA Z-1

Engineering measures : Use with adequate ventilation.

All application areas should be ventilated in accordance with

applicable OSHA regulations. (29 CFR 1910.94)

This product contains a particulate(s) that is considered hazardous per OSHA (29 CFR 1910.1200) and is listed in

Section III as a precautionary warning.

Under normal conditions of use, this product as supplied does not pose a health risk from particulate matter. Physical degradation of the cured product (i.e. sanding,

abrading, etc.) may pose a dust hazard.

Repeated inhalation of such dust may cause lung injury.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Odour Threshold : No data available

pH : No data available



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Melting point/freezing point : No data available

Initial boiling point and boiling : No data available

range

Vapour pressure : No data available

Flash point : > 201 °F (> 94 °C)

Method: No information available.

Information taken from reference works and the literature.

: No data available Upper explosion limit

Lower explosion limit : No data available

: No data available Evaporation rate

Flammability (solid, gas) : No data available

Relative vapour density : No data available

Relative Density/Specific

Gravity

: No data available

: 1.1 g/cm3 (77 °F (25 °C)) Density

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

 $> 22 \text{ mm2/s} (104 \,^{\circ}\text{F} (40 \,^{\circ}\text{C}))$ Viscosity, kinematic

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.



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Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Hazardous decomposition

products

: Carbon monoxide in a fire. Nitrogen oxides in a fire.

chlorinated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 1,762 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory or skin sensitisation

Carcinogenicity

IARC Group 1: Carcinogenic to humans

2,2'-dichloro-4,4'- 101-14-4

methylenedianiline

Group 2B: Possibly carcinogenic to humans

Carbon black 1333-86-4

ACGIH Suspected human carcinogen

2,2'-dichloro-4,4'- 101-14-4

methylenedianiline

OSHANo component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Reasonably anticipated to be a human carcinogen



101-14-4

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2,2'-dichloro-4,4'-

methylenedianiline

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

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

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

EPA Hazardous Waste

Code(s)

: none

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.



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Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(4,4'-methylenebis[2-chloroaniline])

Class : 9
Packing group : III

Labels : Miscellaneous substances and articles

Packing instruction (cargo : 964

aircraft)

Packing instruction : 964

(passenger aircraft)

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(4,4'-METHYLENEBIS[2-CHLOROANILINE))

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(4,4'-methylenebis[2-chloroaniline])

Class : 9
Packing group : III

Labels : Miscellaneous substances and articles

ERG Code : 171 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act



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US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-dichloro-4,4'-	101-14-4	10	35
methylenedianiline			

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA

harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for

reporting purposes.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product contains the following toxic chemical(s) subject

to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and

40 CFR part 372.

2,2'-dichloro-4,4'- 101-14-4 28.3 %

methylenedianiline

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): 2.2'-dichloro-4.4'-methylenedianiline 101-14-4 28.3 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

US State Regulations

Massachusetts Right To Know

2,2'-dichloro-4,4'-methylenedianiline 101-14-4



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Pennsylvania Right To Know

Polyurethane Prepolymer

Polytetrahydrofuran 25190-06-1 2,2'-dichloro-4,4'-methylenedianiline 101-14-4

New Jersey Right To Know

Polyurethane Prepolymer

Polytetrahydrofuran 25190-06-1 2,2'-dichloro-4,4'-methylenedianiline 101-14-4 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- 77-99-6

Polyester Glutarate -

Carbon black 1333-86-4

New Jersey Trade Secret : Not Applicable

Registry Number for the product (NJ TSRN)

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

2,2'-dichloro-4,4'-methylenedianiline 101-14-4 Carbon black 1333-86-4

The components of this product are reported in the following inventories:

TSCA : We certify that all of the components of this product are either

listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

Section 5 Not applicable

DSL : We certify that all of the components of this product are listed

on the DSL.



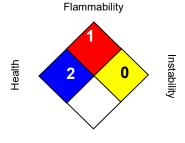
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



Special hazard.

HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Revision Date : 10/30/2017

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 a 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.

