

1 Identification

Product identifier

Product Name TerraPRIME Polyuera A side

Other means of identification

SDS # VS-002A

Recommended use of the chemical and restrictions on use

Recommended Use Floor coating/polyaspartic. For professional use only.

Details of the supplier of the safety data sheet

Supplier Address

Valence Supply
13617 Inwood Rd, Suite 270
Dallas Tx 75244

Emergency telephone number

Company Phone Number 214-766-7818
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2 Hazards Identification

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

Signal Word

Danger

Hazard statements

Harmful if inhaled

Causes skin irritation

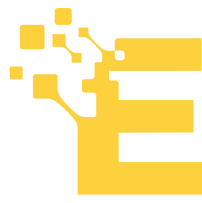
Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction

Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure





Hazards Identification cont.

Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- In case of inadequate ventilation wear respiratory protection
- Contaminated work clothing must not be allowed out of the workplace
- Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

- 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 eye irritation persists: Get medical advice/attention

- IF ON SKIN: Wash with plenty of water and soap
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician



Hazards Identification cont.

Precautionary Statements - Storage

Store locked up

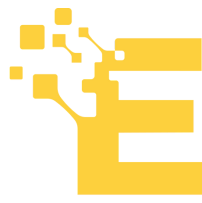
Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3 Composition/Information on Ingredients

Chemical name	CAS No	Weight-%
4,4- methylenediphenyl diisocyanate (MDI)	101-68-8	35-70
Methylenediphenyl diisocyanate isomers (Polymeric MDI)	9016-87-9	20-45
Dimethyl Glutarate	1119-40-0	5-15
Dimethyl Adipate	627-93-0	5-15

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.



4 First Aid Measures

Description of first aid measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

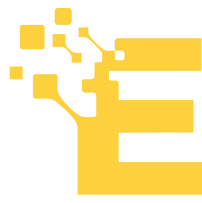
Skin Contact Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call Poison Control or doctor/physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. Seek medical attention

Most important symptoms and effects, both acute and delayed

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



First Aid Measures cont.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5 Fire-Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use personal protective equipment as required.

Environmental precautions

Accidental Release Measures cont

Methods and material for containment and cleaning up

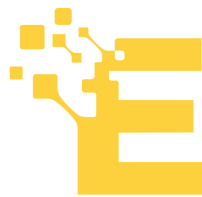
Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7 Handling and Storage

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray.



Accidental Release Measures cont

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Incompatible Materials None known based on information supplied.

8 Exposure Control/Personal Protection

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m3 regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m3	IDLH: 75 mg/m3 Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m3 10 min TWA: 0.005 ppm TWA: 0.05 mg/m3

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Exposure Control/Personal Protection cont.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection regulations.
Skin and Body Protection	Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.
Respiratory Protection	In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Refer to 29 CFR 1910.134 for respiratory protection requirements.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

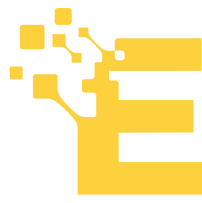
9 Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Not determined		
Appearance	Not determined	Odor	Not determined
Color	Not determined	Odor Threshold	Not determined

**Physical and Chemical Properties cont.**

Property	Values	Remarks • Method
pH	Not determined	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	210 °C / 410 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapor Pressure	0.0000245 hPa (20 °C)	
Vapor Density	Not determined	
Relative Density	1.23 g/cm ³ (20 °C)	
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	log Pow: 15.98 (20 °C) GLP: no	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	370 mm ² /s (20 °C)	
Dynamic Viscosity	Not determined	
Explosive Properties Oxidizing Properties	Not determined Not determined	



10 Stability and Reactivity

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11 Toxicological Information

Information on likely routes of exposure

Product Information

Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Inhalation	Harmful if inhaled.
Ingestion	Do not ingest.

**Toxicological Information cont.****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	= 31600 mg/kg (Rat)		=369mg/m3 (Rat)4h
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9	=49g/kg (Rat)	> 9.4 g/kg (Rabbit)	=490mg/m3 (Rat)4h
Dimethyl Glutarate 1119-40-0	>5000mg/kg (Rat)	> 5000 mg/kg (Rabbit)	>5.6mg/L (Rat)4h
Dimethyl Adipate 627-93-0	>5000mg/kg (Rat)	> 5000 mg/kg (Rabbit)	

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

Please see section 4 of this SDS for symptoms.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.



Toxicological Information cont.

Carcinogenicity

Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
4,4-methylenediphenyl diisocyanate (MDI) 101-68-8		Group 3		
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

- Oral LD50** 16,244.60 mg/kg
- Dermal LD50** 12,868.40 mg/kg
- ATEmix (inhalation-dust/mist)** 0.074 mg/L



12 Ecological Information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Dimethyl Glutarate 1119-40-0		19.6 - 26.2: 96 h Pimephales promelas mg/L LC50 static	122.1 - 163.5: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other Adverse Effects

Not determined

13 Disposal Considerations

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.



14 Transport Information

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

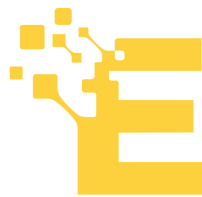
IATA Not regulated

IMDG Not regulated

15 Regulatory Information

International Inventories

Chemical name	TS CA	TSCA Inventory Status	DSL/NDS L	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
4,4- methylenediphe nyl diisocyanate (MDI)	X	ACTIVE	X	X	X	X	X	X	X
Methylenediphe nyl diisocyanate isomers (Polymeric MDI)	X	ACTIVE	X		X	X	X	X	X
Dimethyl Glutarate	X	ACTIVE	X	X	X	X	X	X	X
Dimethyl Adipate	X	ACTIVE	X	X	X	X	X	X	X



Regulatory Information cont.

Legend

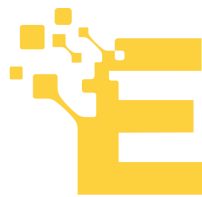
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ



Regulatory Information cont.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
4,4- methylenediphenyl diisocyanate (MDI) - 101-68-8	101-68-8	35-70	1.0
Methylenediphenyl diisocyanate isomers (Polymeric MDI) - 9016-87-9	9016-87-9	20-45	1.0

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Regulatory Information cont.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
4,4- methylenediphenyl diisocyanate (MDI) 101-68-8	X	X	X
Methylenediphenyl diisocyanate isomers (Polymeric MDI) 9016-87-9	X		

16 Other Information

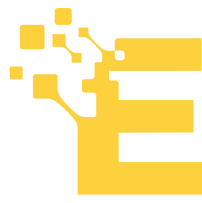
NFPA	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
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HMIS	Health Hazards Not determined	Flammability Not determined	Physical hazards Not determined	Personal Protection Not determined
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Issue Date: 08-Sep-2020

Revision Date: 30-Nov-2021

Revision Note: Reformulation



Other Information cont.

Disclaimer

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