

1 IDENTIFICATION

Product Identifier

Name: **TerraMEND** CONCRETE MENDER - A SIDE

Details

Valence Supply

13617 Inwood Rd, Suite 270

Dallas Tx 75244

214-766-7818

Emergency telephone number:

INFOTRAC (24 HOURS) USA 1-800-535-5053 / INTERNATIONAL 1-352-323-3500 USE ONLY FOR HAZARDOUS MATERIALS (OR DANGEROUS GOODS) INCIDENT - SPILLS, LEAKS, FIRE, EXPOSURE, OR ACCIDENT CN109479

2 HAZARD(s) IDENTIFICATION

Classification of the substance or mixture

 GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Carc. 2

H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

 GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

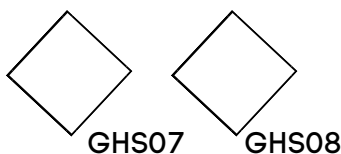
Skin Sens. 1

STOT SE 3

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System

Hazard pictograms

HAZARD(S) IDENTIFICATION cont.**Signal word** Danger**Hazard-determining components of labeling:**

4,4'-methylenediphenyl diisocyanate diphenylmethanediisocyanate, isomers and homologues
methylenediphenyl diisocyanate

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 respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

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.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

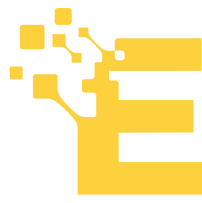
Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate
ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and
easy to do. Continue rinsing.



HAZARD(s) IDENTIFICATION cont.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If 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 place. Keep the container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health= 2

Fire= 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health= *2

Fire= 1

Reactivity= 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.



3 COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

Trade name: TerraMEND

Dangerous Components :

101-68-8	4,4'-methylenediphenyl diisocyanate Resp.Sens. 1, H334; Care. 2, H351; STOT RE 2, H373 ◆; Acute Tax. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	>25- 50%
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Resp.Sens. 1, H334; Care. 2, H351; STOT RE 2, H373; Acute Tax. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	>25-:50%
26447-40-5	methylenediphenyl diisocyanate Resp.Sens. 1, H334; Care. 2, H351; STOT RE 2, H373; Acute Tax. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 ◆	>2.5-<5%

4 FIRST-AID MEASURES

Description of first aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place the patient stably inside position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. If symptoms persist consult a doctor.

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FIRST-AID MEASURES contd.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information is available.

5 FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: water spray, dry powder, carbon dioxide, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

nitrous gases, fumes/smoke, isocyanate, vapour

Advice for firefighters

Protective equipment:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear

Additional information

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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 allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

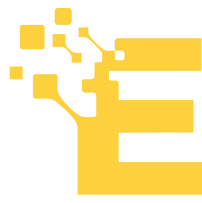
Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Protective Action Criteria for Chemicals



ACCIDENTAL RELEASE MEASURES cont.

-PAC-1:	
101-68-8 4,4'-methylenediphenyl diisocyanate	0.46 mg/m ³
9016-87-9 diphenylmethanediisocyanate, isomers and homologues	0.15 mg/m ³
26447-40-5 methylenediphenyl diisocyanate	27 mg/m ³
· PAC-2:	
101-68-8 4,4'-methylenediphenyl diisocyanate	5 mg/m ³
9016-87-9 diphenylmethanediisocyanate, isomers and homologues	3.6 mg/m ³
26447-40-5 methylenediphenyl diisocyanate	39 mg/m ³
· PAC-3:	
101-68-8 4,4'-methylenediphenyl diisocyanate	54 mg/m ³
9016-87-9 diphenylmethanediisocyanate, isomers and homologues	23 mg/m ³

7 HANDLING AND STORAGE

Handling:

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Protect against moisture.

Ensure good ventilation/exhaustion at the workplace. Avoid aerosol formation. When handling heated products, vapors of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. The danger of bursting when sealed gastight. Protect against moisture. If bulging of the drum occurs, transfer to a well-ventilated area, puncture to relieve pressure, open the vent, and let stand for 48 hours before resealing.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids and bases.

Storage:

Requirements to be met by storerooms and receptacles:

Carbon Steel, (Iron), High-density polyethylene (HDPE), Low-density polyethylene (LDPE)

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep the receptacle tightly sealed.

Specific end use(s) No further relevant information is available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about the design of technical systems: No further data; see item 7

Control Parameters

Components with limit values that require monitoring at the workplace
101-68-8 4,4'-methylenediphenyl diisocyanate
PEL Ceiling limit value: 0.2 mg/m ³ 0.02 ppm
REL Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *IO-min
TLV Long-term value: 0.051 mg/m ³ , 0.005 ppm

EXPOSURE CONTROLS/PERSONAL PROTECTION cont.

Additional information: The lists that were valid during the creation were used as a basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages, and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a respiratory protective device that is independent of circulating air

Protection of hands:**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation for the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion, and the degradation

Material of gloves

The selection of suitable gloves does not only depend on the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

EXPOSURE CONTROLS/PERSONAL PROTECTION cont.**Eye Protection:****Tightly Sealed Goggles****Body protection:** Protective work clothing**9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties****General Information****Appearance:****Form:** Liquid

Color:	Dark brown
Odor:	Musty, slight odor
Odor threshold:	Not determined
pH-value:	Not determined
Change in condition:	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	200 °C (392 °F)
Flash point:	198 °C (388.4 °F)
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	400 °C (752 °F)
Decomposition temperature:	Not determined
Auto igniting:	Product is not self igniting
Danger of explosion:	Product does not present an explosion hazard
Explosion limits: Lower:	Not determined
Explosion limits Upper:	Not determined

**PHYSICAL AND CHEMICAL PROPERTIES cont.****Trade name: Terrmend**

Vapor pressure:	Not determined
Density at 20 °C (68 °F):	1.12038 g/cm ³ (9.34957 lbs/gal)
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility in I Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Solvent content:	
voe content:	0.0 g/l I 0.00 lb/gl
Solids content:	83.80%
Other Information:	No further relevant information available

10 STABILITY AND REACTIVITY**Reactivity** No further relevant information is available.**Chemical stability****Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions**

Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

Exothermic reaction. Reacts with strong acids and alkalis. Reacts with oxidizing agents.

Conditions to avoid Avoid moisture**Incompatible materials:**

acids, amines, alcohols, water, Alkalines, strong bases, and Products that react with isocyanates

Hazardous decomposition products:

aromatic isocyanates, gases/vapors

carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LCS0 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Oral	LD50	6,776 mg/kg (mouse)
Inhalative	LC50/4 h	16.1 mg/L
101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	2,200 mg/kg (mouse)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization:

Sensitization is possible through inhalation.

Sensitization is possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)		
101-68-8	4,4'-methylenediphenyl diisocyanate	3
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information is available.

Persistence and degradability No further relevant information is available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information is available.

Mobility in soil No further relevant information is available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted products or large quantities of them to reach groundwater, watercourse, or sewage system

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information is available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation:

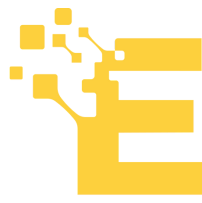
It must not be disposed of together with household garbage. Please don't allow the product to reach the sewage system. Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substances/products into the sewer system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 TRANSPORT INFORMATION

UN-Number	
DOT, ADN, IMDG, IATA	not regulated
UN proper shipping name	
DOT, ADN, IMDG, IATA	not regulated



TRANSPORT INFORMATION cont.

Transport hazard class(es) DOT, ADN, IMDG, IATA Class	not regulated
Packing group DOT, IMDG, IATA	not regulated
Environmental hazards:	Not applicable
Special precautions for users	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation" :	Notregulated

15 REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

• Section 355 (extremely hazardous substances):
None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):
101-68-8 4,4'-methylenediphenyl diisocyanate
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

• TSCA (Toxic Substances Control Act):
All ingredients are listed

REGULATORY INFORMATION cont.

Trade name:CMIA

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed

- **Chemicals known to cause developmental toxicity:**

- 26761-40-0 di-"isodecyl" phthalate

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

101-68-814,4'-methylenediphenyl diisocyanate D,CBD

9016-87-9 diphenylmethanediisocyanate,isomeres and homologues CBD

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS08

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SAFETY DATA SHEET

EPOXY PIXELS

JANUARY 2023

REGULATORY INFORMATION cont.

• **Signal word** Danger

• **Hazard-determining components of labeling:**

4,4'-methylenediphenyl diisocyanate

diphenylmethanediisocyanate, isomers and homologues methylenediphenyl diisocyanate

• **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 respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

• **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.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/ eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

Trade name: TerraMEND

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If 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 place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Valence Supply
13617 Inwood Rd, Suite 270
Dallas Tx 75244



Text Us 972-449-5617
Call Us 214-766-7818
www.valencesupply.com

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Environment protection department.

Contact: Safety Department

Abbreviations and acronyms:

ADR: Accord europeen sur Le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio accumulative and Toxic

vPvB: very Persistent and very Bio accumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tax. 4: Acute toxicity - Category 4

Other information cont.

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure)- Category 2