



Safety Data Sheet
IMUTHANE PST-50D

Safety Data Sheet dated: 10/30/2015 - version 1

Date of first edition: 10/30/2015

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: IMUTHANE PST-50D

Other means of identification:

Trade code: N.A.

Recommended use of the chemical and restrictions on use

Recommended use: Industrial uses: Uses of substances as such or in preparations at industrial sites; Prepolymers

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: COIM USA, Inc

286 Mantua Grove Rd, West Deptford, NJ 08066

Phone: (856) 224-8560

Email address of person responsible for this SDS:

US_SDS@us.coimgroup.com

Emergency telephone number

CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Skin Irrit. 2 Causes skin irritation.
Eye Irrit. 2A Causes serious eye irritation.
STOT SE 3 May cause respiratory irritation.

Label elements

Symbols:



Warning

Code	Description
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Code	Description
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash face, hands and any exposed skin part thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.

P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501.A	Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

OSHA/HCS status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity	Name	Ident. Numb.
99-100 %	Polyurethane	
0.03-0.1 %	m-Tolyldiene diisocyanate (Toluene diisocyanate)	CAS:26471-62-5 EC:247-722-4 Index:615-006-00-4

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

In case of eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

In case of Ingestion:

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

In case of Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Most important symptoms/effects, acute and delayed

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO2).

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products: carbon dioxide
carbon monoxide
nitrogen oxides
hydrogen cyanide
isocyanate vapor

Explosive properties: N.A.
Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire-fighters should wear positive pressure self-contained breathing apparatus and personal protective equipments, such as jacket (standard: EN469), helmet (standard: EN443), gloves (standard: EN407), boots (standard: EN345-S3 HI WRU HRO).
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorb with inert, absorbent material.
In case of heavy spills: wash with plenty of water.

7. HANDLING AND STORAGE

Store in accordance with local regulations.

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Do not use on extensive surface areas in premises where there are occupants.
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink or smoke while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Always keep in a well ventilated place.

Incompatible materials:

See Section 10.

Instructions as regards storage premises:

Cool, dry and adequately ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
2-methyl-m-phenylene diisocyanate; toluene-2,4-di-isocyanate;	ACGIH				0.005		0.020		
	OSHA		C				0.020		

Appropriate engineering controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Protection for skin:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber (EN374).

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged (EN529).

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Solid @25°C

Appearance and colour: white

Odour: odourless

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: >40 °C (104 °F)

Initial boiling point and boiling range: >250 °C (482 °F)

Flash point: 160.0 °C (320.0 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density (air = 1): N.A.

Vapour pressure: <0.5 mmHg at 21°C

Density: 1.14 g/cm³

Solubility in water: Reacts slightly with water

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 1,600.00 cPs @70°C

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not Available.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid contact with water: the product reacts with water developing carbon dioxide, which causes pressure increase within hermetically sealed container

Incompatible materials

Alcohols; Oxidizers; Water

Hazardous decomposition products

In case of fire, toxic gases (such as carbon dioxide, carbon monoxide, nitrogen oxides) may be formed. Hydrogen cyanide (HCN)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Polyurethane	h) STOT-single exposure	Respiratory Tract Irritant Positive
	b) skin corrosion/irritation	Skin Irritant Yes
	c) serious eye damage/irritation	Eye Irritant Yes
	a) acute toxicity	LD50 Skin Rabbit > 5000.00000mg/kg LD50 Oral Rat > 5000.00000mg/kg
m-Tolyldiene diisocyanate (Toluene diisocyanate)	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat 0.08ppm
	a) acute toxicity	LD50 Oral Rat = 3360mg/kg LC50 Inhalation Rat 66.00000ppm 1h LD50 Skin Rabbit 10000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

m-Tolyldiene diisocyanate (Toluene diisocyanate) Group 2B

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

m-Tolyldiene diisocyanate (Toluene diisocyanate)

Substance(s) listed on the NTP report on Carcinogens:

m-Tolyldiene diisocyanate (Toluene diisocyanate)

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
m-Tolyldiene diisocyanate (Toluene diisocyanate)	CAS: 26471-62-5 - EINECS: 247-722-4 - 67-548-EC: 615-006-00-4	LC50 Fish Mugil cephalus4100mg/L 96h „Tadokoro, H. et alia (CITI Japan). Draft Report to III, Project E-CE-41 (1986) LC100 Fish Brachydanio rerio (Danio rerio)> 250mg/L 96h „Caspers, N. (Bayer AG). Report to III, Project E-CE-41 (1986) EC50 Daphnia Daphnia magna= 750mg/L 24h „Caspers, N. (Bayer AG). Report to III, Project E-CE-41 (1986)

EC100 Daphnia Daphnia magna 100mg/L 48h „Tadokoro, H. et alia (CITI Japan). Draft Report to III, Project FE-E-66-2 (March 1991)
EC50 Daphnia Daphnia magna 12.5mg/L 48h „Tadokoro, H. et alia (CITI Japan). Draft Report to III, Project FE-E-66-2 (March 1991)
NOEC Daphnia Daphnia magna > 0.5mg/L 21d „Caspers, N. (Bayer AG). Report to III, Project E-CE-41 (1986)
EC50 Algae Chlorella vulgaris 4300mg/L 96h „Tadokoro, H. et alia (CITI Japan). Draft Interim Report to III, Project FE-E-66-1 (1990)
EC10 Algae Chlorella vulgaris = 2000mg/L 96h „Tadokoro, H. et alia (CITI Japan). Draft Interim Report to III, Project FE-E-66-1 (1990)

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

ADR-UN number: N/A
DOT-UN Number: N/A
IATA-Un number: N/A
IMDG-Un number: N/A

UN proper shipping name

ADR-Shipping Name: N/A
DOT Proper Shipping Name: N/A
IATA-Technical name: N/A
IMDG-Technical name: N/A

Transport hazard class(es)

ADR-Class: N/A
DOT Hazard Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

Packing group

ADR-Packing Group: N/A
DOT-Packing group: N/A
IATA-Packing group: N/A
IMDG-Packing group: N/A

Environmental hazards

Marine pollutant: No
Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): N/A
DOT Label(s): N/A
DOT Symbol: N/A
DOT Cargo Aircraft: N/A
DOT Passenger Aircraft: N/A
DOT Bulk: N/A
DOT Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A
ADR - Hazard identification number: N/A
ADR Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A
IATA-Cargo Aircraft: N/A
IATA-Label: N/A
IATA-Subrisk: N/A
IATA-Erg: N/A
IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subrisk: N/A
IMDG-Special Provisions: N/A
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: N/A
IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed or exempted on the TSCA inventory

TSCA listed substances:

Polyurethane	is listed in TSCA	Section 8b
m-Tolyldene diisocyanate (Toluene diisocyanate)	is listed in TSCA	Section 5a - SNUR

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

m-Tolyldene diisocyanate (Toluene diisocyanate)

Section 304 - Hazardous substances:

no substances listed

Section 313 - Toxic chemical list:

m-Tolyldene diisocyanate (Toluene diisocyanate)

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

m-Tolyldene diisocyanate (Toluene diisocyanate)	Reportable quantity:	100	pounds
	Reportable quantity for mixture:	111111	pounds

CAA - Clean Air Act

CAA listed substances:

no substances listed

CWA - Clean Water Act

CWA listed substances:

no substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

m-Tolyldene diisocyanate (Toluene diisocyanate)	Listed as carcinogen
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Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

m-Tolyldene diisocyanate (Toluene diisocyanate)

Pennsylvania Right to know

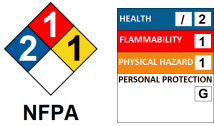
Substance(s) listed under Pennsylvania Right to know:

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

m-Tolylidene diisocyanate (Toluene diisocyanate)

Additional classification information



HMIS Health: 2 = MODERATE
HMIS Flammability: 1 = Combustible if heated
HMIS Reactivity: 1 = SLIGHT
HMIS P.P.E.: G - Safety glasses, gloves, vapor respirators
NFPA Health: 2 = MODERATE
NFPA Flammability: 1 = Combustible if heated
NFPA Reactivity: 1 = SLIGHT
NFPA Special Risk: NONE

16. OTHER INFORMATION

Safety Data Sheet dated: 10/30/2015 - version 1

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- IMDG: International Maritime Code for Dangerous Goods.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- CLP: Classification, Labeling, Packaging.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- INCI: International Nomenclature of Cosmetic Ingredients.
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- LC50: Lethal concentration, for 50 percent of test population.
- LD50: Lethal dose, for 50 percent of test population.
- DNEL: Derived No Effect Level.
- PNEC: Predicted No Effect Concentration.
- TLV: Threshold Limiting Value.
- TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
- STEL: Short Term Exposure limit.
- STOT: Specific Target Organ Toxicity.
- WGK: German Water Hazard Class.
- KSt: Explosion coefficient.
- y for the damage.