



## Safety Data Sheet IMUTHANE 18-95A

Safety Data Sheet dated: 5/8/2018 - version 1

Date of first edition: 5/8/2018

### 1. IDENTIFICATION

#### Product identifier

Mixture identification:

Trade name: IMUTHANE 18-95A

#### 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; polyurethane resin

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@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.   |
| Resp. Sens. 1 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.      |
| Skin Sens. 1  | May cause an allergic skin reaction.  |
| Carc. 2       | Suspected of causing cancer.  |
| STOT SE 3     | May cause respiratory irritation.   |
| STOT RE 2     | May cause damage to organs through prolonged or repeated exposure (inhalation). |

#### Label elements

##### Pictograms and Signal Words



Danger

##### Hazard statements:

|      |   |
|------|---|
| H315 | Causes skin irritation.   |
| H317 | May cause an allergic skin reaction.  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.      |
| H335 | May cause respiratory irritation.   |
| H351 | Suspected of causing cancer.  |
| H373 | May cause damage to organs through prolonged or repeated exposure (inhalation). |

##### Precautionary statements:

|      |   |
|------|---|
| P201 | Obtain special instructions before use.                                   |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                          |

|           |  |
|-----------|--|
| P264      | Wash ... 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. |
| P284      | [In case of inadequate ventilation] wear respiratory 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. |
| P312      | Call a POISON CENTER/doctor/... if you feel unwell.                        |
| P314      | Get medical advice/attention if you feel unwell.                           |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.           |
| P363      | Wash contaminated clothing before reuse.                                   |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.           |
| P405      | Store locked up.   |
| P501      | Dispose of contents/container in accordance with applicable regulations.   |

**Ingredient(s) with unknown acute toxicity:**

90

**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.  |
|----------|--|---|
| 10-15 %  | 4,4'-methylenediphenyl diisocyanate;<br>diphenylmethane-4,4'-diisocyanate; | CAS:101-68-8,<br>101-68-8<br>EC:202-966-0<br>Index:615-005-00-9 |

**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.

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## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

### 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.

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## 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.

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## 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.

Exercise the greatest care when handling or opening the container.

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.

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## 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 |
|---|----------|-----------------|---------|-----------------|---------------|------------------|----------------|-----------|------|
| 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; | ACGIH    |                 |         |                 |               | 0.005            |                |           |      |
|   | OSHA     | UNITED STATES C |         | 0.200           | 0.020         |                  |                |           |      |
|   | NIOSH    | UNITED STATES C |         | 0.020           | 0.020         | 0.050            | 0.005          |           |      |

#### 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:

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

##### Protection for hands:

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

##### Respiratory protection:

Use adequate protective respiratory equipment (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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State: Solid @ 25°C

Appearance and colour: Waxy whitish

Odour: like: Isocyanate

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 240.0 °C (464.0 °F)

Evaporation rate: N.A.

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

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

Vapour pressure: N.A.

Density: 1.20 REL

Solubility in water: N.A.

Solubility in oil: N.A.

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

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 300.00 cPs @ 100°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.

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## 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

**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)

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**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:**

4,4'-methylenediphenyl diisocyanate;  
diphenylmethane-4,4'-diisocyanate;  
4'-diisocyanate;                      a) acute toxicity                      LD50 Oral Rat 9200 mg/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:**

4,4'-methylenediphenyl diisocyanate;                      Group 3  
diphenylmethane-4,4'-diisocyanate;

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

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

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

None

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

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

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**12. ECOLOGICAL INFORMATION****Toxicity**

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

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

No Data Available

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### 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-Transport category (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:

4,4'-methylenediphenyl diisocyanate; is listed in TSCA Section 8b  
diphenylmethane-4,4'-diisocyanate;

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### 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:

no substances listed

#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

#### New Jersey Right to know

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

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

### Additional classification information



HMIS Health: 2 = MODERATE

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: G - Safety glasses, gloves, vapor respirators

NFPA Health: 2 = MODERATE

NFPA Flammability: 1 = Combustible if heated

## 16. OTHER INFORMATION

Safety Data Sheet dated: 5/8/2018 - 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.