

# CATALYST CREETY AN COMP B

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 12/3/2025 Revision date: 10/15/2025 Version: 14.0



### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : CATALYST CREETY AN COMP B  
Product code : 18958211  
Type of product : Catalyst  
Product group : Trade product

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Uses in coatings - Curing agent for component A.

#### 1.4. Supplier's details

##### WEG TINTAS LTDA - GRUPO WEG

##### Guaramirim - Santa Catarina / Brasil

Rodovia BR 280 – Km 50, 6.918 – Bloco A. Caixa D'Água – 89270-000 - +55 (47) 3276-4000

##### Mauá - São Paulo / Brasil

Rua Dr. Ulysses Guimarães, nº 918 – Bloco A. Loteamento Industrial Coral 09372-050 – Fone: +55 (11) 4547-6100

##### Cabo de Santo Agostinho - Pernambuco / Brasil

Via VII, 314 Distrito Industrial DIPER – 54590-000 - Fone: +55 (81) 3512-3000

##### Betim - Minas Gerais / Brasil

Avenida Juiz Marco Tulio Isaac, 2994 Betim Industrial – 32671-198, Fone: +55 (31) 3268-0687 / +55 (31) 3268-0686

##### Macaé - Rio de Janeiro / Brasil

Rua Itacolomi, 528 – Quadra H – Lote 11 Cabiúnas – 27977-340

##### Atotonilco de Tula - Estado de Hidalgo / México

Av. Hidalgo, lote 40, 41, 42 y 43 - Parque Industrial Bicentenario, CP 42980 - Fone: +52 (55) 5321-4231

##### Buenos Aires - Provincia de Buenos Aires / Argentina

Av. José Melián, 2983 - Parque Industrial Burzaco, B1852 - Fone: +54 (11) 4299-8000

#### 1.5. Emergency phone number

Emergency number :

|                                      |             |                                  |                         |
|--------------------------------------|-------------|----------------------------------|-------------------------|
| <b>24-HOUR EMERGENCY - AMBIPAR</b>   |             | 0800 117 2020                    |                         |
| <b>CHEMTREC international number</b> |             | +1-703-527-3887 e 1-800-424-9300 |                         |
| <b>Country</b>                       | <b>City</b> | <b>Local Number</b>              | <b>Toll-Free Number</b> |
| Austria                              | Vienna      | +43-1-3649237                    |                         |
| Austria                              |             |                                  | 0800 293702             |
| China                                |             | 400 120 4937                     |                         |
| France                               |             | +33-975181407                    |                         |
| Germany                              |             |                                  | 0800-181-7059           |

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18958211

## Safety Data Sheet

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Revision date: 10/15/2025

|                |           |                  |                  |
|----------------|-----------|------------------|------------------|
| India          | Bangalore | +91 8071 279 207 |                  |
| India          |           |                  | 000 800 1007 141 |
| Italy          | Milan     | +39-02 4555 7031 |                  |
| Italy          |           |                  | 800 789 767      |
| Netherlands    |           | +31-85 888 0596  |                  |
| South Africa   |           |                  | 080-001-4676     |
| United Kingdom | London    | +44 20 3807 3798 |                  |
| South korea    |           |                  | 080-880-0454     |
| Japan          |           |                  | 0800-300-5842    |

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

#### Classification according to GHS BR (ABNT NBR 14725: 2023)

Acute toxicity (oral), Category 5  
Skin corrosion/irritation, Category 2  
Serious eye damage/eye irritation, Category 2  
Respiratory sensitisation, Category 1  
Skin sensitisation, Category 1  
Carcinogenicity, Category 2  
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation  
Specific target organ toxicity — Repeated exposure, Category 2  
Hazardous to the aquatic environment - Chronic Hazard, Category 4

### 2.2. GHS Label elements, including precautionary statements

#### GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H303 - May be harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
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.  
H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (GHS BR)

: 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 or spray.  
P264 - Wash hands, forearms and face 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.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.  
P284 - Wear respiratory protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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Revision date: 10/15/2025

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 or attention.  
P312 - Call a POISON CENTER or a doctor if you feel unwell.  
P314 - Get medical advice or attention as appropriate.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.  
P337+P313 - If eye irritation persists: Get medical advice or attention.  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.  
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 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                     | GHS Product identifier | Conc. (% w/w) | Classification according to GHS BR (ABNT NBR 14725: 2023)                                                                                                                                                                                                                              |
|------------------------------------------|------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PU HARDENER                              | CAS-No.: 9016-87-9     | 50 – 60       | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373                                                                                                                                          |
| Methylenediphenyl diisocyanate           | CAS-No.: 101-68-8      | 20 – 40       | Acute Tox. 5 (Oral), H303<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 2 (Inhalation:dust,mist), H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373                             |
| MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE | CAS-No.: 101-68-8      | 20 – 40       | Acute Tox. 5 (Oral), H303<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Aquatic Chronic 4, H413 |

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Revision date: 10/15/2025

### SECTION 4: First-aid measures

#### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. People with over sensibility problems are not allowed to work or be exposed to the product.                                                                                                                         |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Immediately call a POISON CENTER/doctor.                                                                                                                |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                                                                                                                                           |
| First-aid measures after ingestion    | : If you feel unwell, seek medical advice.                                                                                                                                                                                                                                   |

#### 4.2. Most important symptoms and effects, acute and delayed

|                                     |                                                                                                                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. |
| Symptoms/effects after inhalation   | : Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause irritation (cough, short breathing, difficulty in breathing).          |
| Symptoms/effects after skin contact | : Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.                                                                                                |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. stinging. redness, itching, tears.                                                                                                                                                                                   |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. Ingestion may cause nausea and vomiting.                                                                                                                                                                               |
| Chronic symptoms                    | : Suspected carcinogen.                                                                                                                                                                                                                               |

#### 4.3. Indication of any immediate medical attention and special treatment needed, if necessary

|                    |                         |
|--------------------|-------------------------|
| Notes to physician | : Treat symptomatically |
|--------------------|-------------------------|

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

|                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                |

#### 5.2. Specific hazards arising from the chemical

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Fire hazard      | : In case of fire and/or explosion do not breathe fumes. |
| Explosion hazard | : No direct explosion hazard.                            |

#### 5.3. Special protective actions for fire-fighters

|                                |                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Use self-contained breathing apparatus and chemically protective clothing.                                                                                   |
| Other information              | : In case of fire, corrosive and harmful gases come free. High temperature decomposition products are harmful by inhalation.                                   |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Avoid contact with skin and eyes. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

### 6.1.2. For emergency responders

Protective equipment : Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. Equip cleanup crew with proper protection.  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Do not allow to enter drains or water courses. May cause long lasting harmful effects to aquatic life. Do not allow product to spread into the environment. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and materials for containment and cleaning up

For containment : Stop leak without risks if possible. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for cleaning up : Absorb spilled material with sand or earth. Clean contaminated surfaces with an excess of water. Absorb spillage to prevent material damage. Take up liquid spill into absorbent material.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Obtain special instructions before use. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. Ensure good ventilation of the work station. Keep only in original container. Do not handle until all safety precautions have been read and understood.  
Hygiene measures : Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep cool.  
Packaging materials : Always store product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE 101-68-8

##### USA - OSHA - Occupational Exposure Limits

|            |                                      |
|------------|--------------------------------------|
| Local name | Methylene bisphenyl isocyanate (MDI) |
| OSHA PEL C | 0.2 mg/m <sup>3</sup>                |
|            | 0.02 ppm                             |

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18958211

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### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE 101-68-8

Regulatory reference (US-OSHA)

OSHA Annotated Table Z-1

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Protective gloves made of PVC. Nitrile rubber gloves

#### Eye protection:

Wear closed safety glasses

#### Skin and body protection:

Long sleeved protective clothing. Or chemical resistant apron. Safety shoes

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                            |                      |
|--------------------------------------------|----------------------|
| Physical state                             | : Liquid             |
| Appearance                                 | : Liquid.            |
| Colour                                     | : Colourless         |
| Odour                                      | : characteristic     |
| Odour threshold                            | : Not available      |
| pH                                         | : Não aplicável      |
| Melting point                              | : Not available      |
| Freezing point                             | : Not available      |
| Boiling point                              | : Not available      |
| Flash point                                | : > 200 °C           |
| Relative evaporation rate (butylacetate=1) | : Not available      |
| Flammability                               | : Not available      |
| Explosive limits                           | : Not available      |
| Vapour pressure                            | : < 0.01 Pa (25 °C)  |
| Relative vapour density at 20°C            | : Not available      |
| Relative density                           | : 1.22 aprox.        |
| Density                                    | : 1.22 g/cm³ (25 °C) |

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|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| Solubility                                      | : Water: Hidrólise em compostos insolúveis |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                            |
| Auto-ignition temperature                       | : > 530 °C                                 |
| Decomposition temperature                       | : Not available                            |
| Viscosity, kinematic                            | : não determinado                          |
| Viscosity, dynamic                              | : 50 – 100 mPa·s ( 25 °C)                  |
| Particle size                                   | : Not applicable                           |
| Particle size distribution                      | : Not applicable                           |
| Particle shape                                  | : Not applicable                           |
| Particle aspect ratio                           | : Not applicable                           |
| Particle specific surface area                  | : Not applicable                           |

### PU HARDENER9016-87-9

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Boiling point             | 200 °C Source: National Library of Medicine/Chemical Carcinogenesis Research Information System_ |
| Flash point               | 215 °C Source: The Chemical Database, The Department of Chemistry at the University of Akron     |
| Auto-ignition temperature | > 400                                                                                            |
| Vapour pressure           | 1000 mm Hg Source: National Library of Medicine/Hazardous Substances Data Bank                   |

### Methylenediphenyl diisocyanate101-68-8

|                 |                                           |
|-----------------|-------------------------------------------|
| Boiling point   | 373.4 °C at 760mmHg Source: Look chemical |
| Flash point     | 154 °C Source: Look chemical              |
| Vapour pressure | 0.000004 mm Hg Source: Hazmap             |

### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE101-68-8

|                           |                                     |
|---------------------------|-------------------------------------|
| Boiling point             | > 300 °C at 1013 hPa Source: ECHA   |
| Flash point               | 196 °C Source: ICSC                 |
| Auto-ignition temperature | > 600 °C Source: GESTIS             |
| Vapour pressure           | 0.000005 mm Hg at 25°C Source: HSDB |

## 9.2. Data relevant with regard to physical hazard classes

No additional information available

## 9.3. Further safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

|                                    |                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability                 | : Stable under normal conditions of use.                                                                                             |
| Conditions to avoid                | : Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hazardous decomposition products   | : On exposure to high temperature, may decompose, releasing corrosive gases.                                                         |
| Incompatible materials             | : No additional information available.                                                                                               |
| Possibility of hazardous reactions | : None under normal use.                                                                                                             |
| Reactivity                         | : The product is non-reactive under normal conditions of use, storage and transport.                                                 |
| Handling temperature               | : No additional information available                                                                                                |

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## Safety Data Sheet

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.  
Acute toxicity (dermal) : Not available  
Acute toxicity (inhalation) : Not classified.

##### CATALYST CREETY AN COMP B

|               |                       |
|---------------|-----------------------|
| ATE BR (oral) | 5000 mg/kg bodyweight |
|---------------|-----------------------|

##### PU HARDENER (9016-87-9)

|                                 |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| LD50 oral rat                   | 49000 mg/kg Source: Corporate Solution From Thomson Micromedex  |
| LD50 dermal rabbit              | > 9500 mg/kg Source: Corporate Solution From Thomson Micromedex |
| LC50 Inhalation - Rat (Vapours) | 0.49 mg/l Source: Corporate Solution From Thomson Micromedex    |

##### Methylenediphenyl diisocyanate (101-68-8)

|                       |                                 |
|-----------------------|---------------------------------|
| LD50 oral rat         | > 2000 mg/kg Source: NITE       |
| LD50 dermal rabbit    | > 10000 mg/kg Source: OECD SIDS |
| LC50 Inhalation - Rat | 0.369 mg/kg Source: IUCLID      |

##### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE (101-68-8)

|                    |                           |
|--------------------|---------------------------|
| LD50 oral rat      | > 2000 mg/kg Source: ECHA |
| LD50 dermal rabbit | > 9400 mg/kg Source: ECHA |

Skin corrosion/irritation : Causes skin irritation.  
pH: Não aplicável

Serious eye damage/irritation : Causes serious eye irritation.  
pH: Não aplicável

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

Germ cell mutagenicity : Not available

Carcinogenicity : Suspected of causing cancer.

##### PU HARDENER (9016-87-9)

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

##### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE (101-68-8)

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

Reproductive toxicity : Not available

STOT-single exposure : May cause respiratory irritation.

##### PU HARDENER (9016-87-9)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

##### Methylenediphenyl diisocyanate (101-68-8)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

##### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE (101-68-8)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

##### PU HARDENER (9016-87-9)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

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### Methylenediphenyl diisocyanate (101-68-8)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE (101-68-8)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

Aspiration hazard : Not available

### CATALYST CREETY AN COMP B

|                      |                 |
|----------------------|-----------------|
| Viscosity, kinematic | não determinado |
|----------------------|-----------------|

## 11.2. Most important symptoms and effects, both acute and delayed

|                                     |                                                                                                                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                    | : May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. |
| Symptoms/effects after inhalation   | : Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause irritation (cough, short breathing, difficulty in breathing).          |
| Symptoms/effects after skin contact | : Causes skin irritation. irritation (itching, redness, blistering). Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.                                                                                                |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. stinging. redness, itching, tears.                                                                                                                                                                                   |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. Ingestion may cause nausea and vomiting.                                                                                                                                                                               |
| Chronic symptoms                    | : Suspected carcinogen.                                                                                                                                                                                                                               |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------|
| Ecology - general                                         | : May cause long lasting harmful effects to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not available                                           |
| Hazardous to the aquatic environment, long-term (chronic) | : May cause long lasting harmful effects to aquatic life. |

### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE 101-68-8

|                 |                          |
|-----------------|--------------------------|
| LC50 - Fish [1] | > 3000 mg/l Source: ECHA |
|-----------------|--------------------------|

### 12.2. Persistence and degradability

#### CATALYST CREETY AN COMP B

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### PU HARDENER 9016-87-9

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### Methylenediphenyl diisocyanate 101-68-8

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE 101-68-8

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

#### PU HARDENER 9016-87-9

|                                                 |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 10.46 Source: Quantitative Structure Activity Relation |
|-------------------------------------------------|--------------------------------------------------------|

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18958211

## Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 10/15/2025

### Methylenediphenyl diisocyanate101-68-8

Partition coefficient n-octanol/water (Log Pow) 3.212 Source: Molbase

### MONOMER DIPHENYLMETHANE-4,4-DIISOCYANATE101-68-8

Partition coefficient n-octanol/water (Log Pow) 4.51 Source: ECHA

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Hazardous to the ozone layer : Not available

### SECTION 13: Disposal considerations

Waste treatment methods : Must follow special treatment according to local regulation.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.

### SECTION 14: Transport information

#### 14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

| ANTT                                 | IMDG          | IATA          |
|--------------------------------------|---------------|---------------|
| <b>UN number</b>                     |               |               |
| Not regulated for transport          |               |               |
| <b>UN Proper Shipping Name</b>       |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Transport hazard class(es)</b>    |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Danger labels</b>                 |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Subsidiary risk</b>               |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Risk Number</b>                   |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Packing group</b>                 |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Special provisions</b>            |               |               |
| Not regulated                        | Not regulated | Not regulated |
| <b>Dangerous for the environment</b> |               |               |
| Not regulated                        | Not regulated | Not regulated |

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10/11

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### 14.2 Other informations

No additional information available

## SECTION 15: Regulatory information

### 15.1. National regulations

Brazil Local Regulations

: Standard ABNT NBR 14725.  
Federal Decree no. 10.088, of 5 November 2019 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil.  
Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26  
Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials  
Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.  
Law No. 12.305, of August 2, 2010 (National Policy on Solid Waste)

## SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstracts Service number  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
BCF - Bioconcentration factor  
EC50 - Median effective concentration  
LC50 - Median lethal concentration  
VOC - Volatile Organic Compounds  
LD50 - Median lethal dose  
DMEL - Derived Minimal Effect level  
DNEL - Derived-No Effect Level  
COD - Chemical oxygen demand (COD)  
ATE - Acute Toxicity Estimate  
IMDG - International Maritime Dangerous Goods  
IATA - International Air Transport Association  
EC-No. - European Community number  
vPvB - Very Persistent and Very Bioaccumulative  
WGK - Water Hazard Class  
IOELV - Indicative Occupational Exposure Limit Value  
BLV - Biological limit value  
TRGS - Technical Rules for Hazardous Substances  
TLM - Median Tolerance Limit  
IARC - International Agency for Research on Cancer

Important information, but not specifically described in the previous sections: This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical. We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

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