

# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## DINITROL 517 A

Revision date: 01/14/2025

Product code: 10517

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### 1. Identification

#### Product identifier

DINITROL 517 A

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

##### Use of the substance/mixture

Adhesives, sealants

##### Uses advised against

No further relevant information available.

#### Details of the supplier of the safety data sheet

##### Manufacturer

Company name: DINOL GmbH  
Street: Pyrmonter Strasse 76  
Place: D-32676 Luegde  
Telephone: + 49 (0) 5281 982980  
E-mail: msds@dinol.com  
Contact person: Labor  
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

##### Supplier

Company name: DINOL U.S. Inc.  
Street: 8500 Cotter Street, Lewis Center  
Place: USA-43035 Ohio  
Telephone: 740-548-1656  
E-mail: info@dinolus.com  
Internet: www.dinol.com

Telefax: 740-548-1657

**Emergency phone number:** 3E Company Emergency +1-866-404-4230

### 2. Hazard(s) identification

#### Classification of the chemical

##### 29 CFR Part 1910.1200

Respiratory or skin sensitization: Skin Sens. 1

#### Label elements

##### 29 CFR Part 1910.1200

**Signal word:** Warning

**Pictograms:**



#### **Hazard statements**

May cause an allergic skin reaction

#### **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water and soap.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

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### Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

### Mixtures

#### Hazardous components

| CAS No    | Components                                   | Quantity    |
|-----------|--|-------------|
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 0,1 - < 1 % |

#### Further Information

Full text of H statements: see section 16.

## 4. First-aid measures

### Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest.

#### After contact with skin

Change contaminated clothing.

After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Do NOT induce vomiting.

Call a physician immediately.

Put victim at rest, cover with a blanket and keep warm.

### 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 available.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water fog.

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

High power water jet.

### Specific hazards arising from the chemical

No further relevant information available.

### Special protective equipment and precautions for fire-fighters

No special measures are necessary.

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**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.  
Wear personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

For further specification, refer to section 8 of the SDS.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Provide adequate ventilation.  
Clear contaminated areas thoroughly.  
Do not rinse down with water.

**Other information**

No information available.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Advice on protection against fire and explosion**

No special measures are necessary.

**Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

No special measures are necessary.

**Hints on joint storage**

Not required.

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#### Further information on storage conditions

storage temperature: 0 - 35 °C  
maximum storage temperature < 35°C  
minimum storage temperature < 0 °C

### 8. Exposure controls/personal protection

#### Control parameters

##### Additional advice on limit values

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

#### Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation.  
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.  
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Eye glasses with side protection (DIN EN 166)

##### Hand protection

Tested protective gloves must be worn (EN ISO 374):  
FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.  
NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.  
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Protective gloves have to be replaced at the first sign of deterioration.  
Protect skin by using skin protective cream.

##### Skin protection

Wear anti-static footwear and clothing

##### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

|   |                |                |
|---|----------------|----------------|
| Physical state:   | Paste          |                |
| Color:  | white          |                |
| Odor:   | characteristic |                |
| Odour threshold:  | not determined |                |
| Melting point/freezing point:                             |                | not determined |
| Boiling point or initial boiling point and boiling range: |                | > 300 °C       |
| Flammability:   |                | not applicable |
| Lower explosion limits:                                   |                | not determined |
| Upper explosion limits:                                   |                | not determined |

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|  |                        |
|--|------------------------|
| Flash point:                           | not applicable         |
| Auto-ignition temperature:             | 375 °C                 |
| Decomposition temperature:             | not determined         |
| pH-Value:                              | not determined         |
| Viscosity / kinematic:                 | not determined         |
| Water solubility:                      | Immiscible             |
| Solubility in other solvents           |                        |
| not determined                         |                        |
| Partition coefficient n-octanol/water: | not determined         |
| Vapor pressure:                        | not determined         |
| Density (at 20 °C):                    | 1,21 g/cm <sup>3</sup> |
| Relative vapour density:               | not determined         |
| Particle characteristics:              | not applicable         |

### Other information

#### Information with regard to physical hazard classes

Explosive properties

The product is: not explosive

Sustaining combustion:

No data available

Oxidizing properties

not determined

#### Other safety characteristics

Softening point:

not determined

Viscosity / dynamic:

not determined

#### Further Information

No further relevant information available.

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

Stability:

Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions:

Will not occur

No known hazardous reactions.

### Conditions to avoid

No further relevant information available.

### Incompatible materials

No further relevant information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Route(s) of Entry

No information available.

### Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

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#### ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No    | Components                                   |               |         |        |        |
|-----------|--|---------------|---------|--------|--------|
|           | Exposure route                               | Dose          | Species | Source | Method |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine |               |         |        |        |
|           | oral   | LD50<br>mg/kg | 1030    | Rat    |        |
|           | dermal                                       | ATE<br>mg/kg  | 1100    |        |        |

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitizing effects

May cause an allergic skin reaction (3-aminomethyl-3,5,5-trimethylcyclohexylamine)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

No information available.

#### Practical experience

No information available.

#### Information on other hazards

##### Endocrine disrupting properties

Endocrine disrupting potential No information available.

#### Further information

There are no data available on the preparation/mixture itself.

## 12. Ecological information

#### Persistence and degradability

There are no data available on the mixture itself.

#### Bioaccumulative potential

There are no data available on the mixture itself.

#### Mobility in soil

There are no data available on the mixture itself.

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#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### Other adverse effects

No information available.

#### Further information

There are no data available on the mixture itself.

### 13. Disposal considerations

#### Waste treatment methods

##### **Disposal recommendations**

Dispose of waste according to applicable legislation.  
Do not mix with other wastes.

##### **RCRA Hazardous wastes (Resource Conservation and Recovery Act)**

None

##### **Contaminated packaging**

Dispose according to legislation.

### 14. Transport information

#### **U.S. DOT 49 CFR 172.101**

##### Proper shipping name:

No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

Marine pollutant:

no

#### **Air transport (ICAO-TI/IATA-DGR)**

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

No dangerous good in sense of this transport regulation.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

### 15. Regulatory information

#### U.S. Regulations

##### **National Inventory TSCA**

Substance/product listed in the following inventories: TSCA

##### **National regulatory information**

SARA Section 311/312 Hazards:

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2): Immediate (acute) health hazard

#### State Regulations

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#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Directive 2004/42/EC on VOC in  
paints and varnishes: 0,00 %  
0,00 g/l

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

### 16. Other information

#### Hazardous Materials Identification System (HMIS)

Health: 1  
Flammability: 0  
Physical Hazard: 0

#### NFPA Hazard Ratings

Health: 0  
Flammability: 0  
Reactivity: 0  
Unique Hazard: none



#### Changes

Revision date: 01/14/2025  
Revision No: 1,4

This data sheet contains changes from the previous version in section(s): 2,4,9,16.

#### Abbreviations and acronyms

ADR: Accord européen 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  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

#### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*



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### 1. Identification

#### Product identifier

DINITROL 517 B

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

##### Use of the substance/mixture

Adhesives, sealants

##### Uses advised against

No further relevant information available.

#### Details of the supplier of the safety data sheet

##### Manufacturer

Company name: DINOL GmbH  
Street: Pyrmonter Strasse 76  
Place: D-32676 Luegde  
Telephone: + 49 (0) 5281 982980  
E-mail: msds@dinol.com  
Contact person: Labor  
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

##### Supplier

Company name: DINOL U.S. Inc.  
Street: 8500 Cotter Street, Lewis Center  
Place: USA-43035 Ohio  
Telephone: 740-548-1656  
E-mail: info@dinolus.com  
Internet: www.dinol.com

Telefax: 740-548-1657

**Emergency phone number:** 3E Company Emergency +1-866-404-4230

### 2. Hazard(s) identification

#### Classification of the chemical

##### 29 CFR Part 1910.1200

Acute toxicity: Acute Tox. 4 (inhalation)  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Respiratory or skin sensitization: Resp. Sens. 1  
Respiratory or skin sensitization: Skin Sens. 1  
Carcinogenicity: Carc. 2  
Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)  
Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

#### Label elements

##### 29 CFR Part 1910.1200

**Signal word:** Danger

**Pictograms:**



##### Hazard statements

Causes skin irritation  
May cause an allergic skin reaction

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Causes serious eye irritation  
Harmful if inhaled  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause respiratory irritation  
Suspected of causing cancer  
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 water 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.  
Wear respiratory protection.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms: Call a poison center/doctor.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
If exposed or concerned: Get medical advice/attention.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Hazardous components

| CAS No    | Components  | Quantity   |
|-----------|---|------------|
| 9016-87-9 | Diphenylmethanediisocyanate, isomers and homologues | 50 - 100 % |

#### Further Information

Full text of H statements: see section 16.

### 4. First-aid measures

#### Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

##### After inhalation

Remove casualty to fresh air and keep warm and at rest.

##### After contact with skin

Change contaminated clothing.  
After contact with skin, wash immediately with plenty of water and soap.

##### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing. Seek medical advice immediately.

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**After ingestion**

- Do NOT induce vomiting.
- Call a physician immediately.
- Put victim at rest, cover with a blanket and keep warm.

**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 available.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder. Water fog.**Unsuitable extinguishing media**

High power water jet.

**Specific hazards arising from the chemical**

No further relevant information available.

**Special protective equipment and precautions for fire-fighters**

No special measures are necessary.

**Additional information**

- Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

- Provide adequate ventilation.
- Wear personal protection equipment.
- Avoid contact with skin, eyes and clothes.
- Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

For further specification, refer to section 8 of the SDS.

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****For containment**

- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

- Provide adequate ventilation.
- Clear contaminated areas thoroughly.
- Do not rinse down with water.

**Other information**

No information available.

**Reference to other sections**

- Safe handling: see section 7
- Personal protection equipment (PPE): see section 8

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Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### **Advice on protection against fire and explosion**

No special measures are necessary.

#### **Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

No special measures are necessary.

#### **Hints on joint storage**

Not required.

#### **Further information on storage conditions**

storage temperature: 0 - 35 °C

maximum storage temperature < 35°C

minimum storage temperature < 0 °C

## 8. Exposure controls/personal protection

### Control parameters

#### **Additional advice on limit values**

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

### Exposure controls



#### **Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### **Individual protection measures, such as personal protective equipment**

##### **Eye/face protection**

Eye glasses with side protection (DIN EN 166)

##### **Hand protection**

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

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mentioned above together with the supplier of these gloves.  
Protective gloves have to be replaced at the first sign of deterioration.  
Protect skin by using skin protective cream.

#### Skin protection

Wear anti-static footwear and clothing

#### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.  
In case of inadequate ventilation wear respiratory protection. gas filtering equipment (EN 141), Filter material/medium: A/P2

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                |                        |
|---|----------------|------------------------|
| Physical state:   | Paste          |                        |
| Color:  | brown          |                        |
| Odor:   | characteristic |                        |
| Odour threshold:  | not determined |                        |
| Melting point/freezing point:                             |                | not determined         |
| Boiling point or initial boiling point and boiling range: |                | 190 °C                 |
| Flammability:   |                | not applicable         |
| Lower explosion limits:                                   |                | not determined         |
| Upper explosion limits:                                   |                | not determined         |
| Flash point:  |                | 111 °C                 |
| Auto-ignition temperature:                                |                | 400 °C                 |
| Decomposition temperature:                                |                | not determined         |
| pH-Value:   |                | not determined         |
| Viscosity / kinematic:                                    |                | not determined         |
| Water solubility:   |                | Immiscible             |
| Solubility in other solvents                              |                |                        |
| not determined  |                |                        |
| Partition coefficient n-octanol/water:                    |                | not determined         |
| Vapor pressure:   |                | not determined         |
| Density (at 20 °C):                                       |                | 1,21 g/cm <sup>3</sup> |
| Relative vapour density:                                  |                | not determined         |
| Particle characteristics:                                 |                | not applicable         |

### Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product is: not explosive

##### Sustaining combustion:

No data available

##### Oxidizing properties

not determined

#### Other safety characteristics

##### Softening point:

not determined

##### Viscosity / dynamic:

not determined

#### Further Information

No further relevant information available.

## 10. Stability and reactivity

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### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

### Conditions to avoid

No further relevant information available.

### Incompatible materials

No further relevant information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Route(s) of Entry

No information available.

### Information on toxicological effects

#### **Acute toxicity**

Harmful if inhaled

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 14,65 mg/l; ATE (inhalation dust/mist) 1,997 mg/l

| CAS No    | Components  |                   |         |        |        |
|-----------|---|-------------------|---------|--------|--------|
|           | Exposure route                                      | Dose              | Species | Source | Method |
| 9016-87-9 | Diphenylmethanediisocyanate, isomers and homologues |                   |         |        |        |
|           | oral  | LD50 >10000 mg/kg | Rat     |        |        |
|           | dermal  | LD50 >9400 mg/kg  | Rabbit  |        |        |
|           | inhalation vapour                                   | ATE 11 mg/l       |         |        |        |
|           | inhalation dust/mist                                | ATE 1,5 mg/l      |         |        |        |

#### **Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation

#### **Sensitizing effects**

May cause allergy or asthma symptoms or breathing difficulties if inhaled (Diphenylmethanediisocyanate, isomers and homologues)

May cause an allergic skin reaction (Diphenylmethanediisocyanate, isomers and homologues)

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer (Diphenylmethanediisocyanate, isomers and homologues)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### **Specific target organ toxicity (STOT) - single exposure**

May cause respiratory irritation (Diphenylmethanediisocyanate, isomers and homologues)

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#### Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (Diphenylmethanediisocyanate, isomers and homologues)

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Polymethylene polyphenyl isocyanate (CAS 9016-87-9) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

No information available.

#### Practical experience

No information available.

#### Information on other hazards

##### Endocrine disrupting properties

Endocrine disrupting potential No information available.

#### Further information

There are no data available on the preparation/mixture itself.

### 12. Ecological information

#### Persistence and degradability

There are no data available on the mixture itself.

#### Bioaccumulative potential

There are no data available on the mixture itself.

#### Mobility in soil

There are no data available on the mixture itself.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### Other adverse effects

No information available.

#### Further information

There are no data available on the mixture itself.

### 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

##### RCRA Hazardous wastes (Resource Conservation and Recovery Act)

None

##### Contaminated packaging

Dispose according to legislation.

### 14. Transport information

#### U.S. DOT 49 CFR 172.101

##### Proper shipping name:

No dangerous good in sense of this transport regulation.

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### Marine transport (IMDG)

|                                    |  |
|------------------------------------|--|
| <u>UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u>              | No dangerous good in sense of this transport regulation. |
| Marine pollutant:                  | no   |

### Air transport (ICAO-TI/IATA-DGR)

|                                    |  |
|------------------------------------|--|
| <u>UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u>              | No dangerous good in sense of this transport regulation. |

### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### Special precautions for user

No dangerous good in sense of this transport regulation.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

## 15. Regulatory information

### U.S. Regulations

#### National Inventory TSCA

Substance/product listed in the following inventories: TSCA

#### National regulatory information

SARA Section 311/312 Hazards:

Polymeric diphenylmethane diisocyanate (9016-87-9): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Polymeric diphenylmethane diisocyanate (9016-87-9): De minimis limit = 1.0 %, Reportable threshold = Standard

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Directive 2004/42/EC on VOC in  
paints and varnishes: 0,00 %  
0,00 g/l

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

## 16. Other information

### Hazardous Materials Identification System (HMIS)

Health: 2  
Flammability: 0  
Physical Hazard: 0

### NFPA Hazard Ratings

Health: 2  
Flammability: 0  
Reactivity: 0  
Unique Hazard: none



### Changes



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Revision No: 1,5

This data sheet contains changes from the previous version in section(s): 4,8,16.

**Abbreviations and acronyms**

ADR: Accord européen 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

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*