

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.02.2011

Revision: 07.02.2011

1 Identification of the substance/mixture and of the company/undertaking

- Product identifier
- Trade name: DEN BRAVEN MONTAGEFIX - ST (Art. Nr: DBGOL009775)
- Registration number
diphenylmethanediiisocyanate, isomeres and homologues: 01-2119457024-46-xxxx
dimethyl ether: 01-2119472128-37-xxxx
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation
Filling of gaps in interior applications and cavities. For filling and isolation around window frames and doors.
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Den Braven COMEX SRL
Calea Rasaritului nr. 51
Buftea, Bucuresti
Romania
Tel. +40 (21) 316 10 66/67
Fax +40 (21) 316 10 69
info@denbraven.ro
- Emergency telephone number:
Phone emergency: +40(21)316.10.66/67 available from 8.30 a.m.- 5.30 p.m. or number 112 available round the clock.

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS08 health hazard

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

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

STOT SE 3 H335 May cause respiratory irritation.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Lact. H362 May cause harm to breast-fed children.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.



F+; Extremely flammable

R12: Extremely flammable.

R53-64: May cause long-term adverse effects in the aquatic environment. May cause harm to breastfed babies.

- Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- Label elements
- Hazard-determining components of labelling:
diphenylmethanediisocyanate, isomeres and homologues
- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product:
Xn Harmful
F+ Extremely flammable
- Hazard-determining components of labelling:
diphenylmethanediisocyanate, isomeres and homologues
- Risk phrases:
 - 20 Harmful by inhalation.
 - 36/37/38 Irritating to eyes, respiratory system and skin.
 - 40 Limited evidence of a carcinogenic effect.
 - 42/43 May cause sensitisation by inhalation and skin contact.
 - 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 - 53 May cause long-term adverse effects in the aquatic environment.
 - 64 May cause harm to breastfed babies.
 - 12 Extremely flammable.
- Safety phrases:
 - 2 Keep out of the reach of children.
 - 16 Keep away from sources of ignition - No smoking.
 - 23 Do not breathe aerosol.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 28 After contact with skin, wash immediately with plenty of soap and water.
 - 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 - 37/39 Wear suitable gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - 51 Use only in well-ventilated areas.
 - 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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



















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- Special labelling of certain preparations:
Contains isocyanates. See information supplied by the manufacturer
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- Other hazards
When transported by motorcar or truck cans have to stand upright in the boot or on the loading space - not in car interior.
Only unreacted formulation or fresh foam is harmful. The blowing agent is extremely flammable.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues  Xn R20-40-48/20;  Xn R42/43;  Xi R36/37/38  Resp. Sens. 1, H334;  Carc. 2, H351;  STOT RE 2, H373;  Acute Tox. 4, H332;  STOT SE 3, H335;  Skin Irrit. 2, H315;  Eye Irrit. 2, H319;  Skin Sens. 1, H317	25-50%
CAS: 63449-39-8 EINECS: 264-150-0	Paraffin waxes and Hydrocarbon waxes, chloro  N R50/53 R64-66  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410;  Lact., H362	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2	isobutane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	2.5-10%
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	2.5-10%
CAS: 74-98-6 EINECS: 200-827-9	propane  F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	2.5-10%

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation. Keep patient warm.
- After skin contact:
Immediately wash with polyethylen glycol 400 and afterwards with warm water and soap and rinse thoroughly.
Fresh foam remove or scrape carefully.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Call for a doctor immediately.

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5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire: CO, NO_x, isocyanate vapour and traces of hydrogen cyanide.
Danger of bursting by heating.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.
- Additional information
Cool endangered receptacles with water spray and remove it out of emergency area if possible.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away. Do not flush with water or aqueous cleansing agents.
- Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Foamed out fresh material should be wetted or covered with moisture absorbing materials (sand, wood shavings, absorbing chemicals) for curing
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Avoid aerosol forming.
- Information about fire- and explosion protection:
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- Conditions for safe storage, including any incompatibilities
- Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location under dry conditions in well sealed receptacles
Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.

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- Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Aerosol
Colour:	beige or colored
Odour:	Characteristic
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	Not applicable, as aerosol.
Ignition temperature:	>300°C
Self-igniting:	Product is not selfigniting.
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
Vapour pressure at 20°C:	5.5 bar
Density at 20°C:	1 g/cm ³
Solubility in / Miscibility with water:	Not miscible or difficult to mix.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Hazardous decomposition products:
 - Nitrogen oxides
 - Hydrogen cyanide (prussic acid)
 - Hydrogen chloride (HCl)
 - Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values relevant for classification:		
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	0.49 mg/l (rat)

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Irritating effect.

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- Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
- Sensitisation May cause sensitisation by inhalation and skin contact.

12 Ecological information

- Additional ecological information:
- General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Due to available data on acute aquatic toxicity a short-term damage of the environment is unlikely.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

13 Disposal considerations

- Waste treatment methods
- Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 2 5F Gases.
- Danger code (Kemler): -
- UN-Number: 1950
- Packaging group: -
- Hazard label 2.1
- UN proper shipping name: 1950 AEROSOLS
- Limited quantities (LQ) LQ2
- Transport category 2
- Tunnel restriction code D

- Maritime transport IMDG:



- IMDG Class: 2.1
- UN Number: 1950
- Label 2.1
- Packaging group: -

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- EMS Number: F-D,S-U
- Marine pollutant: No
- Proper shipping name: AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label: 2.1
- Packaging group: -
- Proper shipping name: AEROSOLS, flammable

- UN " Model Regulation" : UN1950, AEROSOLS, 2.1
- Environmental hazards:
Product contains environmentally hazardous substances: Paraffin waxes and Hydrocarbon waxes, chloro
- Special precautions for user Warning: Gases.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Hazard-determining components of labelling:
diphenylmethanediisocyanate, isomeres and homologues
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The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product:
Xn Harmful
F+ Extremely flammable
- Hazard-determining components of labelling:
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- Risk phrases:
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36/37/38 Irritating to eyes, respiratory system and skin.
40 Limited evidence of a carcinogenic effect.
42/43 May cause sensitisation by inhalation and skin contact.
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
53 May cause long-term adverse effects in the aquatic environment.
64 May cause harm to breastfed babies.
12 Extremely flammable.
- Safety phrases:
2 Keep out of the reach of children.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe aerosol.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
37/39 Wear suitable gloves and eye/face protection.

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- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.
- 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.
- Special labelling of certain preparations:
Contains isocyanates. See information supplied by the manufacturer
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
 - National regulations:
 - Information about limitation of use:
Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
 - Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
 - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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

- Relevant phrases
 - H220 Extremely flammable gas.
 - H280 Contains gas under pressure; may explode if heated.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 - H335 May cause respiratory irritation.
 - H351 Suspected of causing cancer.
 - H362 May cause harm to breast-fed children.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
- R-phrases
 - R12 Extremely flammable.
 - R20 Harmful by inhalation.
 - R36/37/38 Irritating to eyes, respiratory system and skin.
 - R40 Limited evidence of a carcinogenic effect.
 - R42/43 May cause sensitisation by inhalation and skin contact.
 - R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 - R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R64 May cause harm to breastfed babies.
 - R66 Repeated exposure may cause skin dryness or cracking.
- 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)
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations 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 Regulations 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 Labelling of Chemicals
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent