

## SAFETY DATA SHEET

Based on Regulation (EC) No. 1907/2006 (REACH) Article 31 and Annex II



**FX200 310ml**  
> min. 80m

**FX210 80ml**  
> min. 20m

**ORAC**<sup>®</sup>  
D E C O R

MADE IN EU

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### 1.1 Identification of the substance or preparation:

Product name: ORAC DecoFix Extra

#### 1.2 Use of the substance/preparation:

Adhesive

#### 1.3 Company/undertaking identification:

ORAC NV  
Biekorfstraat 32  
8400 Oostende  
T: 0032 (0)59 80 32 52  
F: 0032 (0)59 80 28 10  
info@oracdecor.com

#### 1.4 Emergency telephone:

24h/24h: +32 14 58 45 45 (BIG)

### 2. HAZARDS IDENTIFICATION

#### DSD/DPD

Classified dangerous in accordance with Directives 67/548/EEC and 1999/45/EC

Irritating to eyes, respiratory system and skin

Limited evidence of a carcinogenic effect

May cause sensitisation by inhalation and skin contact

Harmful: danger of serious damage to health by prolonged exposure through inhalation



Contains: 4,4'-methylenediphenyl diisocyanate

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Name:

4,4'-methylenediphenyl diisocyanate

#### CAS No EINECS/ELINCS:

101-68-8

202-966-0

#### Conc.:

10% < C < 25%

#### Classification according to DSD/DPD:

- Carc. Cat. 3; R40

- Xn; R20 - 48/20

- Xi; R36/37/38

- R42/43

#### Classification according to CLP:

- Carc. 2; H351

- Acute Tox. 3; H331

- STOT SE 2; H371

- Eye Irrit. 2; H319

- STOT SE 3; H335

- Skin Irrit. 2; H315

- Resp. Sens. 1; H334

- Skin Sens. 1; H317

#### Note:

(1)(2)

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

### 4. FIRST AID MEASURES

#### 4.1 After inhalation:

Remove the victim into fresh air

Respiratory problems: consult a doctor/medical service

#### 4.2 Skin contact:

Wash immediately with lots of water

Do not apply (chemical) neutralizing agents

Take victim to a doctor if irritation persists

#### 4.3 Eye contact:

Rinse immediately with plenty of water

Do not apply neutralizing agents

Take victim to an ophthalmologist if irritation persists

#### 4.4 After ingestion:

Rinse mouth with water

Immediately after ingestion: give lots of water to drink

Do not induce vomiting

Consult a doctor/medical service if you feel unwell

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Suitable extinguishing media:

Polyvalent foam

BC powder

Carbon dioxide

Water spray

#### 5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

### 5.3 Special exposure hazards:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide)

Reacts slowly with water (moisture): release of (carbon dioxide)

### 5.4 Instructions:

Dilute toxic gases with water spray

### 5.5 Special protective equipment for fire-fighters:

- Gloves
- Face-shield
- Protective clothing
- Heat/fire exposure: compressed air/oxygen apparatus

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions:

See heading 8.2

### 6.2 Environmental precautions:

- Dam up the solid spill
- Use appropriate containment to avoid environmental contamination
- Prevent spreading in sewers

See heading 13

### 6.3 Methods for cleaning up:

- Scoop solid spill into closing containers
- Containers must not be sealed hermetically
- Carefully collect the spill/leftovers
- Clean (treat) contaminated surfaces with acetone
- Carefully collect the spill/leftovers
- Wash clothing and equipment after handling

## 7. HANDLING AND STORAGE

### 7.1 Handling:

- Keep away from naked flames/heat
- Observe very strict hygiene - avoid contact
- Keep container tightly closed
- Do not discharge the waste into the drain

### 7.2 Storage:

Safe storage requirements:

- Store in a dry area
- Keep container in a well-ventilated place
- Keep only in the original container
- Meet the legal requirements
- Max. storage time: 1 year(s)

Keep away from:

- (strong) acids
- (strong) bases
- alcohols
- amines
- water/moisture

Suitable packaging material:

polyethylene

### 7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values:

8.1.1 Occupational exposure: If limit values are applicable and available these will be listed below.

Indicative exposure limit (the Netherlands)

Difenylnmethaan-4,4'-diisocyaanaat

- Short time value: 0.02 ppm - 0.21 mg/m<sup>3</sup>

Time-weighted average exposure limit: 0.005 ppm - 0.05 mg/m<sup>3</sup>

Limit Value (Belgium)

Difenylnmethaan-4,4'-di-isocyaanaat(MDI)

- Short time value: ppm - mg/m<sup>3</sup>

- Time-weighted average exposure limit: 0.005 ppm - 0.052 mg/m<sup>3</sup>

TLV (USA)

Methylene bisphenyl isocyanate (MDI)

- Short time value: ppm

- Time-weighted average exposure limit: 0.005 ppm

TRGS 900 (Germany)

4,4'-Methylen- diphenyldiisocyanat

- Time-weighted average exposure limit: 0.05 mg/m<sup>3</sup>

Limit Value (France)

4,4'-Diisocyanate de diphénylméthane

- Short time value: 0.02(5 min) ppm - 0.2(5 min) mg/m<sup>3</sup>

- Time-weighted average exposure limit: 0.01 ppm - 0.1 mg/m<sup>3</sup>

Limit Value (UK)

Isocyanates, all (as -NCO)

- Short time value: -(-NCO) ppm - 0.07(-NCO) mg/m<sup>3</sup>

- Time-weighted average exposure limit:

-(-NCO) ppm 0.02(-NCO) mg/m<sup>3</sup>

### 8.1.2 Sampling methods:

*Product name - Test - Number - Sampling method - Remarks:*

#### 4.4-Methylene Bisphenyl Isocyanate (MDI) (Isocyanates)

Test: NIOSH

Number: 5521

Sampling method: wet chemical

Isocyanates

Test: NIOSH

Number: 5521

Sampling method: wet chemical

Isocyanates

Test: NIOSH

Number: 5522

Sampling method: wet chemical

Methylene Bisphenyl Isocyanate

Test: OSHA

Number: 47

Papi

Test: OSHA

Number: CSI

### 8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Carry operations in the open/under local exhaust/ventilation or with respiratory protection
- Personal protective equipment:
  - a) Respiratory protection:  
Insufficient ventilation: wear respiratory protection
  - b) Hand protection: Gloves - polyethylene
  - c) Eye protection: Safety glasses
  - d) Skin protection: Protective clothing

8.2.2 Environmental exposure controls:  
See headings 6.2, 6.3 and 13

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information:

Physical form: Paste  
Odour: Characteristic odour  
Colour: Colourless

### 9.2 Important health, safety and environmental information:

Flashpoint: > 165 °C  
Relative density: 1.1  
Relative vapour density: > 2

### 9.3 Other information:

## 10. STABILITY AND REACTIVITY

### 10.1 Conditions to avoid:

- Possible fire hazard
- heat sources
- Stability
- Stable under normal conditions

### 10.2 Materials to avoid:

- (strong) acids
- (strong) bases
- alcohols
- amines
- water/moisture

### 10.3 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, carbon monoxide - carbon dioxide)  
Reacts slowly with water (moisture): release of (carbon dioxide)

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Acute toxicity:

4,4'-methylenediphenyl diisocyanate  
LD50 oral (rat): 9200 mg/kg  
LD50 dermal (rabbit): >10000 mg/kg

### 11.2 Chronic toxicity:

- No certainty about human carcinogenic properties
- Not listed in mutagenicity class (EC,MAK)
- Contains a substance of group C (MAK-Schwangerschaftsgruppe)

### 4,4'-methylenediphenyl diisocyanate

- EC carc cat 3
- IARC - classification: 3
- MAK - Krebszeugend Kategorie: 4
- MAK - Schwangerschaft Gruppe: C
- CLP carc cat: category 2

### ORAC DecoFix Extra

- EC carc cat: 3

### 11.3 Acute effects/symptoms:

- Inhalation:
- Dry/sore throat
  - Coughing
  - Runny nose
  - Irritation of the respiratory tract
  - Irritation of the nasal mucous membranes
- Skin contact:
- Tingling/irritation of the skin

- Eye contact:
- Irritation of the eye tissue
- Ingestion:
- Irritation of the gastric/intestinal mucosa

### 11.4 Chronic effects:

Prolonged exposure: danger of damage to health through inhalation  
No cumulative effect

On continuous/repeated exposure/contact:

- Itching
- Skin rash/inflammation
- Feeling of weakness
- Coughing
- Possible inflammation of the respiratory tract
- Respiratory difficulties

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

4,4'-methylenediphenyl diisocyanate  
*species - value - duration (h) - remarks:*  
LC50 fishes  
BRACHYDANIO RERIO ≥500 mg/l 24 h  
EC50 Daphnia  
DAPHNIA MAGNA >100 mg/l

### 12.2 Mobility:

Volatile organic compounds (VOC) 0%  
Solubility in/reaction with water Literature reports: insoluble in water

### 12.3 Persistence and degradability:

Biodegradability in water: no data available

### 12.4 Bioaccumulative potential:

No bioaccumulation data available

### 12.5 Results of PBT assessment:

Not applicable, based on available data

### 12.6 Other adverse effects:

Not dangerous for the ozone layer (1999/45/EC)

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)  
08 04 09\*: waste adhesives and sealants containing organic solvents or other dangerous substances  
Depending on branch of industry and production process, also other EURL codes may be applicable  
Hazardous waste according to Directive 2008/98/EC

### 13.2 Disposal methods:

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery  
Remove waste in accordance with local and/or national regulations  
Do not discharge into drains or the environment

### 13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)  
15 01 10\*: packaging containing residues of or contaminated by dangerous substances

## 14. TRANSPORT INFORMATION

### ADR

Transport: Not subject  
UN number: -  
Class:  
Packing group:  
Hazard identification number:  
Classification code:  
Labels:  
Environmentally hazardous substance mark:

### RID

Transport: Not subject  
UN number: -  
Class:  
Packing group:  
Classification code:  
Labels:  
Environmentally hazardous substance mark:

### ADNR

Transport: Not subject  
UN number: -  
Class:  
Packing group:  
Classification code:  
Labels:  
Environmentally hazardous substance mark:

### IMO

Transport: Not subject  
UN number: -  
Class:  
Packing group:  
Labels:  
Marine pollutant:  
Environmentally hazardous substance mark:

### ICAO

Transport: Not subject  
UN number: -  
Class:  
Packing group:  
Labels:  
Environmentally hazardous substance mark:

## 15. REGULATORY INFORMATION

### 15.1 EU Legislation:

DSD/DPD  
Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC



**Harmful**

**Contains: 4,4'-methylenediphenyl diisocyanate**

### R-phrases

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

### S-phrases

(02) - (Keep out of the reach of children)  
23 D- o not breathe vapour  
36/37 - Wear suitable protective clothing and gloves  
45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
(63) - (In case of accident by inhalation: remove casualty to fresh air and keep at rest)

### Additional recommendations

Contains isocyanates. See information supplied by the manufacturer.  
- 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.

## 15.2 National provisions:

### The Netherlands

Waterbezwaarlijkheid (for NL): 8  
Waste identification other lists of waste materials:  
LWCA (the Netherlands): KGA category 03

### Germany

TA-Luft: 4,4'-methylenediphenyl diisocyanate: TA-Luft Klasse 5.2.5/1  
WGK: 1  
Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

## 15.3 Specific community rules:

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.  
Legislation: EG/552/2009  
Reference legislation: See column 1: 56.

## 16. OTHER INFORMATION

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(\*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances  
DSD Dangerous Substance Directive  
DPD Dangerous Preparation Directive  
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

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

Full text of any H-statements referred to under headings 2 and 3:

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H331 - Toxic if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H351 - Suspected of causing cancer.  
H371 - May cause damage to organs if inhaled

Full text of any classes referred to under headings 2 and 3:

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure