

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 12.11.2014

Version number 1

Revision: 12.11.2014

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· Trade name: **233 Eurosol Contact**

· Article number: 233

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*

· **Application of the substance / preparation** *Contact adhesive*

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

*Forbo Eurocol Nederland B.V.*

*Industrieweg 1-2*

*NL-1521 NA Wormerveer Holland*

*Tel. +31 75 6271600 - Fax +31 75 6283564*

*E-mail address: info.eurocol@forbo.com*

*Website: www.eurocol.com*

· **1.4 Emergency telephone number:**

*In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)30-2748888. (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).*

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· Classification according to Regulation (EC) No 1272/2008



*GHS02 flame*

*Flam. Liq. 2      H225 Highly flammable liquid and vapour.*



*GHS09 environment*

*Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.*



*GHS07*

*Skin Irrit. 2      H315 Causes skin irritation.*

*Eye Irrit. 2      H319 Causes serious eye irritation.*

*STOT SE 3      H336 May cause drowsiness or dizziness.*

(Contd. on page 2)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Version number 1

Revision: 12.11.2014


Trade name: **233 Eurosol Contact**

(Contd. of page 1)


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

 Xi; Irritant

R36/38: Irritating to eyes and skin.

 F+; Highly flammable

R11: Highly flammable.

 N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

· **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.

Has a narcotizing effect.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS09

· **Signal word** *Danger*

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Contains Rosin. May produce an allergic reaction.

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.11.2014

Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**





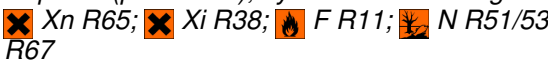


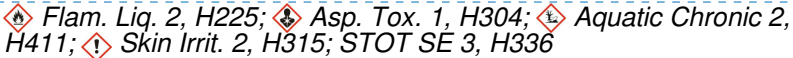
(Contd. of page 2)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
- **Description:** *Polychloroprene solution in organic solvents.*

- **Dangerous components:**

CAS: 92062-15-2 EINECS: 295-529-9	Solvent naphtha (petroleum), hydrotreated light naphthenic  	>25-50%
CAS: 141-78-6 EINECS: 205-500-4 RTECS: AH 5425000	ethyl acetate  	>10-25%
CAS: 92045-53-9 EINECS: 295-434-2	Naphtha (petroleum), hydrodesulfurized light dearomatized  	>5-10%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light  	>5-10%

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

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
*Supply fresh air; consult doctor in case of complaints.*  
*In case of unconsciousness place patient stably in side/recovery position for transportation.*
- **After skin contact:**  
*Immediately remove contaminated clothing, wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Do not induce vomiting; call for medical help immediately.*
- **4.2 Most important symptoms and effects, both acute and delayed**  
*No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

GB

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.11.2014

Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**

(Contd. of page 3)

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *CO<sub>2</sub>, powder or water haze. Fight larger fire with alcohol resistant foam.*
- **5.2 Special hazards arising from the substance or mixture**  
*In case of fire, the following can be released:*  
*Carbon monoxide (CO)*  
*Hydrogen chloride (HCl)*  
*Under certain fire conditions, traces of other toxic gases cannot be excluded.*
- **5.3 Advice for firefighters**
- **Protective equipment:**  
*Wear self-contained respiratory protective device.*  
*Do not inhale explosion gases or combustion gases.*
- **Additional information**  
*Cool endangered receptacles with water spray.*  
*Collect contaminated fire fighting water separately. It must not enter the sewage system.*  
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
*Wear protective equipment. Keep unprotected persons away.*  
*Ensure adequate ventilation*
- **6.2 Environmental precautions:**  
*Do not allow to enter sewers/ surface or ground water.*  
*Inform respective authorities in case of seepage into water course or sewage system.*
- **6.3 Methods and material for containment and cleaning up:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*  
*Dispose contaminated material as waste according to item 13.*  
*Ensure adequate ventilation.*
- **6.4 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.*

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
*Ensure good ventilation/exhaustion at the workplace.*  
*Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.*  
*Protect against electrostatic charges.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Provide solvent resistant, sealed floor.*
- **Information about storage in one common storage facility:** *Store away from foodstuffs.*

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.11.2014

Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**

(Contd. of page 4)

- **Further information about storage conditions:**  
*Store in cool, dry conditions in well sealed receptacles.  
 Keep container tightly sealed.*
- *Recommended storage temperature between 15 and 25 °C.  
 Protect from frost.*
- **7.3 Specific end use(s)** *No further relevant information available.*

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*

### · 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

<b>141-78-6 ethyl acetate</b>	
WEL	Short-term value: 400 ppm Long-term value: 200 ppm

- **Additional information:** *The lists valid during manufacture were used as basis.*

### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

*The usual precautionary measures are to be adhered to when handling chemicals.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.*

#### · Respiratory protection:

*Short term filter device:*

*Filter A/P2*

*Use suitable respiratory protective device in case of insufficient ventilation.*

#### · Protection of hands:



*Protective gloves*

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Selection of the glove material is dependant on the penetration times, rates of diffusion and degradation.*

#### · Material of gloves

*Butyl rubber, BR*

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*

#### · Penetration time of glove material

*The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.*

*Value for the permeation: Level  $\leq$  1*

(Contd. on page 6)

GB

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.11.2014

Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**

(Contd. of page 5)

## · Eye protection:

*Tightly sealed goggles*· Body protection: *Use protective suit.*

### SECTION 9: Physical and chemical properties

## · 9.1 Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form:	Fluid
Colour:	Amber coloured
Odour:	Characteristic

## · Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	63 °C (DIN 53171)

· Flash point: -20 °C (DIN 53213)

· Ignition temperature: 250 °C (DIN 51794)

· Self-igniting: *Product is not self-igniting.*· Danger of explosion: *Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*

## · Explosion limits:

Lower:	0.7 Vol % (EN 1839)
Upper:	11.5 Vol % (EN 1839)

· Vapour pressure at 20 °C: 97 hPa

· Density at 20 °C: 0.85 g/cm<sup>3</sup> (DIN 51757)

· Solubility in / Miscibility with water:

*Not miscible or difficult to mix.*

## · Viscosity:

Dynamic at 20 °C: 2600 mPas (Brookfield (ISO 2555))

## · Solvent content:

Organic solvents:	Ca. 68 %
Water:	0.1 %

Solids content: Ca. 32 % (ISO 3251)

· 9.2 Other information *No further relevant information available.*

GB

(Contd. on page 7)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.11.2014

Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**

(Contd. of page 6)

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
*No decomposition if used and stored according to specifications.*
- **10.3 Possibility of hazardous reactions** *Reacts with alcohols, amines, aqueous acids and alkalis.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** *Inhalation could cause narcosis, drowsiness and dizziness.*

- **LD/LC50 values relevant for classification:**

#### **141-78-6 ethyl acetate**

Oral	LD50	5620 mg/kg (rabbit)
Inhalative	LC50/4 h	11.72 mg/kg (rat)

#### **64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	>5800 mg/kg (rat)
Dermal	LD50	>2900 mg/kg (rat)
Inhalative	LC50/4 h	84.88 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** *Irritant to skin and mucous membranes.*
- **on the eye:** *Irritating effect.*
- **Sensitization:** *No sensitizing effects known.*
- **Subacute to chronic toxicity:**  
*Frequent inhalation of vapours could cause concentration and memory troubles, sleep troubles and mental efficiency fall.*
- **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:*  
*Irritant*

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### **141-78-6 ethyl acetate**

EC50/48 h	717 mg/l (DM)
IC50/48 h	3300 mg/l ( <i>Demodermus subspicatus</i> )
LC50/96h	230 mg/l ( <i>Pimephales promelas</i> )

#### **64742-49-0 Naphtha (petroleum), hydrotreated light**

EC50/48 h	<10 mg/l (DM)
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(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**



(Contd. of page 7)

- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **Ecotoxicological effects:**
- **Remark:** *Toxic for fish*
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water*  
*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*  
*Danger to drinking water if even extremely small quantities leak into the ground.*  
*Also poisonous for fish and plankton in water bodies.*  
*Toxic for aquatic organisms*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Other adverse effects** *No further relevant information available.*

### SECTION 13: Disposal considerations

- **13.1 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.*

### SECTION 14: Transport information

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                | 1133  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | 1133 ADHESIVES (with a flash point below 23 °C and viscous according 2.2.3.1.4) (vapor pressure at 50 °C at most 110 kPa)<br>ADHESIVES  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG</b></li> </ul>                     | <div style="display: flex; align-items: center; gap: 10px;">   </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>   | 3 Flammable liquids.  |

(Contd. on page 9)



## Safety data sheet

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Trade name: **233 Eurosol Contact**

(Contd. of page 8)

· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3

· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Environmentally hazardous substance, liquid
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code *Not applicable.*

· Transport/Additional information:

· ADR	
· Limited quantities (LQ)	LQ7
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1133, ADHESIVES, 3, III

### SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· National regulations:

· Technical instructions (air):

Class	Share in %
I	< 0.25
NK	75-100

· Waterhazard class: *Water hazard class 2 (Self-assessment): hazardous for water.*

· Other regulations, limitations and prohibitive regulations *Only for industrial and professional use.*

· Substances of very high concern (SVHC) according to REACH, Article 57

*None of the ingredients is listed.*

(Contd. on page 10)

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 1

Revision: 12.11.2014

Trade name: **233 Eurosol Contact**

(Contd. of page 9)

· **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 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**

H224 *Extremely flammable liquid and vapour.*

H225 *Highly flammable liquid and vapour.*

H304 *May be fatal if swallowed and enters airways.*

H315 *Causes skin irritation.*

H319 *Causes serious eye irritation.*

H336 *May cause drowsiness or dizziness.*

H411 *Toxic to aquatic life with long lasting effects.*

R11 *Highly flammable.*

R36 *Irritating to eyes.*

R38 *Irritating to skin.*

R51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

R65 *Harmful: may cause lung damage if swallowed.*

R66 *Repeated exposure may cause skin dryness or cracking.*

R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS:** *R&D department*

· **Contact:** *Ing. T.W. Breeuwer*

· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*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)*

*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 (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Flam. Liq. 1: Flammable liquids, Hazard Category 1*

*Flam. Liq. 2: Flammable liquids, Hazard Category 2*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*

*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*

*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*

*Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2*