

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.03.2013

Version number 1

Revision: 02.04.2010

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

· **Product identifier**

· **Trade name:** **233 Eurosol Contact**

· **Article number:** 233

· **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

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

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

· **Manufacturer/Supplier:**

Forbo Eurocol 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

· **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).

2 Hazards identification

· **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.

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· 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.

· Label elements

· 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:

*Xi Irritant**F Highly flammable**N Dangerous for the environment*

· Risk phrases:

*11 Highly flammable.**36/38 Irritating to eyes and skin.**51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**67 Vapours may cause drowsiness and dizziness.*

· Safety phrases:

*9 Keep container in a well-ventilated place.**16 Keep away from sources of ignition - No smoking.**23 Do not breathe gas/fumes/vapour/spray.**24 Avoid contact with skin.**26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**57 Use appropriate container to avoid environmental contamination.*

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** *Not applicable.*

- **vPvB:** *Not applicable.*

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3 Composition/information on ingredients

- **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	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.

4 First aid measures

- **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.
- **Information for doctor:**
- **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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water haze. Fight larger fire with alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Hydrogen chloride (HCl)

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*Under certain fire conditions, traces of other toxic gases cannot be excluded.**Carbon monoxide (CO)***· 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.*

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures*Wear protective equipment. Keep unprotected persons away.**Ensure adequate ventilation***· Environmental precautions:***Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***· 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.***· 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.**Prevent formation of aerosols.***· Information about fire - and explosion protection:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.***· 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.****· 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.*

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· **Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** *No further data; see item 7.*· **Control parameters**· **Ingredients with limit values that require monitoring at the workplace:**

141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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· **Additional information:** *The lists valid during manufacture were used as basis.*· **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***Nitrile rubber, NBR**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 $\leq >1$* · **As protection from splashes gloves made of the following materials are suitable:***Chloroprene rubber, CR**Nitrile rubber, NBR*· **Not suitable are gloves made of the following materials:** *PVC gloves*

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· Eye protection:

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

9 Physical and chemical properties

· 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/cm³ (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)*· Other information: *No further relevant information available.*

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10 Stability and reactivity

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

11 Toxicological information

- **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	>3000 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

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**

141-78-6 ethyl acetate

IC50/48h	3300 mg/l (DS)
LC50/48 h	>1000 mg/l (DM)
LC50/96 h	230 mg/l (PP)

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

EC50/48 h	<10 mg/l (DM)
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- **Persistence and degradability** *No further relevant information available.*
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **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
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

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

- | | |
|---|---|
| · UN-Number | |
| · ADR, IMDG, IATA | 1133 |
| · UN proper shipping name | |
| · ADR | 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) |
| · IMDG, IATA | ADHESIVES |
| · Transport hazard class(es) | |
| · ADR, IMDG | |
|   | |
| · Class | 3 Flammable liquids. |

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· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E, S-D
· 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

15 Regulatory information

- 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.

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· **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

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· * **Data compared to the previous version altered.**