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

Printing date 27.10.2020

Version number 2

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

- · 1.1 Product identifier
- · Trade name: Eurosol 225 Contact PU
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- \cdot Application of the substance / the mixture Adhesives
- · 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: FORBO Eurocol Deutschland GmbH August-Roebling-Str. 2 D-99091 Erfurt Tel.:+49 (0)361 73041-0 Fax: +49 (0)361 73041-92 Website: http://www.forbo-bonding.de

 Further information obtainable from: Laboratory
 Elisabeth Reinhardt
 Elisabeth.Reinhardt@forbo.com
 1.4 Emergency telephone number: GGIZ +49-361-730730 (for Germany)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

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

Eye Irrit. 2 H319 Causes serious eye irritation.

Repr. 1A H360Df May damage the unborn child. Suspected of damaging fertility.

STOT SE 3 H336 May cause drowsiness or dizziness.

· 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



· Signal word Danger

Hazard-determining components of labelling: acetone
N-Ethyl-2-Pyrrolidone
butanone
ethyl acetate
Hazard statements
H225 Highly flammable liquid and vapour.

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(Contd. of page 1) H319 Causes serious eye irritation. H360Df May damage the unborn child. Suspected of damaging fertility. *H336* May cause drowsiness or dizziness. · Precautionary statements Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P261 Avoid breathing mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. · Additional information: Restricted to professional users. · 2.3 Other hazards · Results of PBT and vPvB assessment

- Results of PBT and vPvB
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

· Dangerous compone	ents:	
CAS: 67-64-1	acetone	50-75%
EINECS: 200-662-2	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 78-93-3	butanone	10-<20%
EINECS: 201-159-0		
CAS: 141-78-6	ethyl acetate	10-<20%
EINECS: 205-500-4	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 2687-91-4	N-Ethyl-2-Pyrrolidone	1-3%
	🗞 Repr. 1B, H360D	
· Additional informat	ion: For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

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• *After skin contact: Clean with water and soap. If possible, also wash with polyethylene glycol 400.* • *After eye contact:*

Rinse opened eye for several minutes under running water. If symptoms persist, 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.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. **5.3 Advice for firefighters**

- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Do not allow to enter drains/ surface or ground water. Prevent seepage into sewage system, workpits and cellars.
6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections See Section 7 for information on safe handling. See Section 7 for information on personal protection equipment.

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 that suitable extractors are available on processing machines Open and handle receptacle with care.

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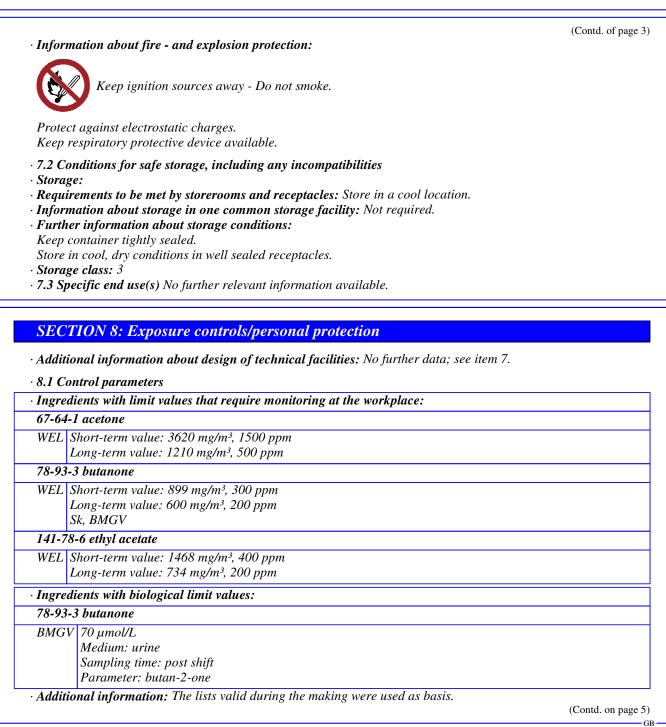
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Colour:

· Odour:

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(Contd. of page 4) · 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. Store protective clothing separately. Avoid contact with the eyes and skin. · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · Recommended filter device for short term use: Combination filter A-P2 · Protection of hands: Protective gloves · Material of gloves *Recommended thickness of the material:* ≥ 0.7 mm 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Tightly sealed goggles · Body protection: Protective work clothing **SECTION 9: Physical and chemical properties** • 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Fluid

Opaque

Characteristic

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· pH-value:	Not applicable.
• Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : 55 °C
· Flash point:	-18 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	540 °C
• Decomposition temperature:	Undetermined. Undetermined. Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
• Explosion limits: Lower: Upper:	2.5 Vol % 13 Vol % 247 hPa
• Vapour pressure at 20 °C:	
• Density at 20 °C: • Evaporation rate	0.88 g/cm ³ Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Undetermined.
· Viscosity: Dynamic at 20 °C:	5100 mPas
· Solvent content: Organic solvents: VOC (CE)	76.0 % 76.00 %
Solids content: • 9.2 Other information	22.50 % No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

 \cdot 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates) Inhalative LC50/4h 64.4 mg/l (rat)

67-64-1 acetone

07-04-1 ac	07-04-1 acelone		
Oral	LD50	5,800 mg/kg (rat)	
Dermal	LD50	20,000 mg/kg (rabbit)	
Inhalative	LC50/4h	76 mg/l (rat)	
78-93-3 bu	itanone		
Oral	LD50	3,300 mg/kg (rat)	
Dermal	LD50	5,000 mg/kg (rabbit)	
141-78-6 e	thyl aceta	te	
Oral	LD50	5,620 mg/kg (rat)	
		5,620 mg/kg (rabbit)	
Dermal	LD50	>18,000 mg/kg (rabbit)	
Inhalative	LC50/4h	11.72 mg/l (rat)	

· Primary irritant effect:

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

· Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity 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

May damage the unborn child. Suspected of damaging fertility.

- · STOT-single exposure
- May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

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

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SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:
- 67-64-1 acetone

LC50/96h 5,540 mg/l (rainbow trout)

EC50/48h 8,800 mg/l (Daphnia magna)

4,740 mg/l (Selenastrum capricornutum)

78-93-3 butanone

LC50/96h 3,200 mg/l (Pimephales promelas)

141-78-6 ethyl acetate

LC50/96h 328 mg/l (Pimephales promelas)

EC50/48h 679 mg/l (Daphnia magna)

EC50/72h 2,500 mg/l (Desmodesmus subspicatus)

• 12.2 Persistence and degradability No further relevant information available.

· Degree of elimination:

67-64-1 acetone

Biodegradability 91 % / 28d

• 12.3 Bioaccumulative potential No further relevant information available.

• 12.4 Mobility in soil No further relevant information available.

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (Self-assessment): slightly hazardous for water.

- · 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

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

• **Recommendation** Do not allow product to reach sewage system.

· European waste catalogue		
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)	
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	
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Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
14.1 UN-Number ADR, IMDG, IATA	UN1133
14.2 UN proper shipping name	
ADR IMPC LATA	1133 ADHESIVES ADHESIVES
IMDG, IATA	ADHESIVES
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	-
EMS Number:	F-E, <u>S-D</u>
Stowage Category	Α
14.7 Transport in bulk according to Annex II o	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
T	Maximum net quantity per outer packaging: 1000 ml 3
Transport category Tunnel restriction code	5 E
IMDG	57
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: El
Excepted quantities (EQ)	<i>Coae: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i>
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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• UN "Model Regulation":

UN 1133 ADHESIVES, 3, III

SECTION 15: Regulatory information

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

• Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30

• National regulations: Water hazard class 1 (Self-assessment): slightly hazardous for water.

• VOC (CE) 853.6 g/l

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

SECTION 16: Other information

· Relevant phrases

H225 Highly flammable liquid and vapour. Causes serious eye irritation. H319 H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H360D May damage the unborn child. · Department issuing SDS: Laboratory · Contact: Elisabeth Reinhardt Elisabeth.Reinhardt@forbo.com · 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 Harmonised 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity - inhalation – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Repr. 1A: Reproductive toxicity - Category 1A Repr. 1B: Reproductive toxicity - Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.



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