



**Dow Automotive**

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Revision: 04.06.2002 Replaces the version of: 15.02.2002 Printing date: 18.08.2003  
Betaclean 3300

## Safety Data Sheet according to EEC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

#### Betaclean 3300

#### Use of the substance/preparation

Cleaner

#### Company/undertaking identification

Dow Automotive Dow Europe GmbH Zweigniederlassung Freienbach, Wolleraustrasse 15 - 17, CH -8807, Freienbach  
Telephone ++41 (0) 55 416 81 11, Fax ++41 (0) 55 416 82 21

EC importer: see point 16 of this EC safety data sheet

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel.: CH-Zürich (Tox-Zentrum) 0041 / 1 / 251 51 51

#### Telephone number of the company in case of emergencies:

Tel. --

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	CAS	EINECS, ELINCS
2-Butoxyethanol	1 -< 12,5	Xn/Xi	20/21/22-36/38		203-905-0
Propan-2-ol	1 -< 20	F/Xi	11-36-67		200-661-7

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EG.

#### 3.2 To the environment

See point 12.

k.D.v.

### 4. First aid measures

#### 4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Keep Data Sheet available.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Do not induce vomiting. Consult doctor immediately.

#### 4.5 Special resources necessary for first aid

n.g.

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.



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5.2 Extinguishing media which must not be used for safety reasons

n.g.

### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Flammable vapour/air mixtures.

### 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

### 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Avoid contact with eyes.

Avoid inhaling.

### 6.2 Environmental measures

If leakage occurs, dam up.

Do not pour down the drain undiluted.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

## 7. Handling and storage

### 7.1 Handling

#### Tips for safe handling:

See point 6.1

General hygiene measures for the handling of chemicals are applicable.

Observe directions on label and instructions for use.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

#### Special storage conditions:

See point 10.2

## 8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Chemical name	content %	OES, MEL, MAK, TRK	BMGV, BAT
2-Butoxyethanol	1 -< 12,5	20 ppm (98 mg/m <sup>3</sup> ) (EC)	240 mmol/mol
Propan-2-ol	1 -< 20	400 ppm (999 mg/m <sup>3</sup> )	50 mg/l

8.1 Respiratory protection:

Gas mask filter A (EN 141)

If OES-, MEL- or MAK-value is exceeded.

8.2 Hand protection:

Rubber gloves (EN 374).

Recommended

8.3 Eye protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

8.4 Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.



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Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Slightly
pH-value undiluted:	< 9
Boiling point / range (°C):	100
Melting point / range (°C):	k.D.v.
Flash point (°C):	39°C EMPA
Minimum limit of explosion:	k.D.v.
Maximum limit of explosion:	k.D.v.
Relative density (g/ml):	0,98
Solubility in water:	Soluble
Vapour density (air = 1):	1

## 10. Stability and reactivity

### 10.1 Conditions to avoid

See point 7

### 10.2 Materials to avoid

See point 7

Avoid contact with oxidizing agents.

Zinc

Brass

Copper

### 10.3 Hazardous decomposition products

See point 5.3

### 10.4 Additional information

Stabilizers necessary:	No
Stabilizers available:	No

## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral (mg/kg):	k.D.v.
11.1.2 Inhalation, LC50 rat inhal.(mg/l/4h):	k.D.v.
11.1.3 Skin contact, LD50 rat dermal (mg/kg):	k.D.v.
11.1.4 Eye contact:	k.D.v.

### 11.2 Delayed and chronic effects

11.2.1 Sensitization:	k.D.v.
11.2.2 Carcinogenicity:	k.D.v.
11.2.3 Mutagenicity:	k.D.v.
11.2.4 Reproductive toxicity:	k.D.v.
11.2.5 Narcosis:	k.D.v.

### 11.3. Further information

No classification according to calculation procedure.

## 12. Ecological information

Water hazard class:	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	Contained surfactants are >90% biodegradable.
Behaviour in sewage plants:	k.D.v.
Aquatic toxicity:	k.D.v.



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Ecological toxicity: k.D.v.

### 13. Disposal considerations

#### 13.1. for the material / preparation / residue

VVS No.:

CH 1222

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

07 06 01 - aqueous washing liquids and mother liquors

07 07 01 - aqueous washing liquids and mother liquors

08 04 15 - aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

### 14. Transport information

#### General statements

UN-Number: n.a.

#### Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

#### Transport by sea

IMDG-code: n.a. (class/packing-group)

EmS-Number: n.a.

Marine Pollutant: n.a.

#### Transport by air

IATA: n.a. (class/secondary danger/packing-group)

#### Additional information:

Non-dangerous material according to Transport Regulations.

### 15. Regulatory information

#### Classification according to Dangerous Product Regulations incl. EC Guidelines (67/548/EEC and 1999/45/EC)

Symbols: Not applicable

Indications of danger:

R-phrases:

S-phrases:

Additions:

Safety data sheet available for professional user on request.

Observe restrictions: n.a.

BAG-T - No.

611500

Toxin class CH

VOC-CH (%) 14,2

VOC-CH (g/l) 138,7

Free

VOC 1999/13/EC (g/l) 138,7

VOC 1999/13/EC (%) 14,2

### 16. Other information



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These details refer to the product as it is delivered.

Storage class VCI (Germany): 10/12

Revised points: 9,15,

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20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

11 Highly flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

### Legend:

n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard

MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place (Germany) / TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (Germany)

VbF = Regulations for flammable liquids (Germany) / TRbF = Technical regulations for flammable liquids (Germany)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC-CH=Volatile organic compounds(VOCV - Switzerland)/AOX=Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790**

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