

SAFETY DATA SHEET

according to Regulation (EU) No 453/2010

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Replaces the release of -

SECTION1 Identificationofthesubstance/mixtureandofthecompany/undertaking

- 1.1 Product identifier
Unicoatings UC 2K base
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Two-component lacquer system.
- 1.3 Details of the supplier of the safety data sheet
Manufacturer/Distributor UC International BV
Address/POB Speuldestraat 14
IVR/ZIP/Place 1107WX Amsterdam, Netherlands
Telephone +31(0)654286146
- 1.4 Emergency telephone number
+31(0)654286146

SECTION2 Hazards identification

- 2.1 Classification of the substance or mixture

according to Regulation (EC) No 1272/2008
Flammable liquids (category 3)
Skin corrosion/irritation (category 2)
Serious eye damage/eye irritation (category 2)
Sensitisation – Skin (category 1)
Hazardous to the aquatic environment – Chronic Hazard (category 3)

according to Directives 67/548/EEC and 1999/45/EC
Flammable.
May cause sensitisation by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- 2.2 Label elements

according to Regulation (EC) No 1272/2008
Hazard pictogram(s) and signal word of the product



GHS02



GHS07

Signal word Warning.

Hazard statements

| | |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH205 | Contains epoxy constituents. May produce an allergic reaction. |

Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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P337+P313

If eye irritation persists: Get medical advice/attention.

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P273 Avoid release to the environment.

Name of the ingredient given on the warning label

4,4'-Isopropylidenedicyclohexanol, polymer with (chloromethyl)oxirane, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate.

according to Directives 67/548/EEC and 1999/45/EC



Xi – Irritant.

Risk phrases

R10

Flammable.

R43

May cause sensitisation by skin contact.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Special provisions

“Contains epoxy compounds. See information supplied by the manufacturer.”

Safety advice

S7

Keep container tightly closed.

S16

Keep away from sources of ignition – No smoking.

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39

Wear suitable gloves and eye/face protection.

S61

Avoid release to the environment. Refer to special instructions/material safety data sheet.

Name of the ingredient given on the warning label

4,4'-Isopropylidenedicyclohexanol, polymer with (chloromethyl)oxirane, bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate.

2.3 Other hazards

Unknown.

SECTION3 Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Epoxy resins in solvents with additives.

Hazardous ingredients

4,4'-Isopropylidenedicyclohexanol, polymer with (chloromethyl)oxirane

EC No 500-070-7

CAS No 30583-72-3

Content 10 - < 20 %

Classification according to Directive 67/548/EEC

Xi; R36/38 – R43

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2; H315 – Skin Sens. 1; H317 –

Eye Irrit. 2; H319

2-Butoxyethanol

EC No 203-905-0

CAS No 111-76-2

Index No 603-014-00-0

Content < 5 %

Classification according to Directive 67/548/EEC

Xn; R20/21/22 – Xi; R36/38

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4; H302, H312, H332 – Eye Irrit. 2; H319 –

Skin Irrit. 2; H315

For this substance there is a Community workplace exposure limit (see section 8).

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n-Butyl acetate

EC No 204-658-1

CAS No 123-86-4

Index No 607-025-00-1

Content < 5 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

R10 – R66 – R67

Flam. Liq. 3; H226 – STOT SE 3; H336 – EUH066

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

EC No 255-437-1

CAS No 041556-26-7

Registration No 01-2119491304-40-0000

Content 1 - < 2.5 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

N; R50-R53 – R43

Aquatic Acute 1; H400 – Aquatic Chronic 1; H410 – Skin Sens. 1; H317

Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate

EC No 280-060-4

CAS No 082919-37-7

Registration No 01-2119491304-40-0000

Content < 1 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

N; R50-R53 – R43

Aquatic Acute 1; H400 – Aquatic Chronic 1; H410 – Skin Sens. 1; H317

Methanol

EC No 200-659-6

CAS No 67-56-1

Index No 603-001-00-X

Registration No 01-2119433307-44

Content < 0.4 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

F; R11 – T; R23/24/25-R39/23/24/25

Flam. Liq. 2; H225 – Acute Tox. 3; H331, H311, H301 – STOT SE 1; H370

For this substance there is a Community workplace exposure limit (see section 8).

The text of the hazard statement codes is in section 16.

SECTION4 First aidmeasures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

In case of inhalation of vapours: remove the person to fresh air, in case of indisposition obtain medical advice.

In case of skin contact

Take off contaminated clothing. Wash off affected skin with plenty of water using soap in case of indisposition obtain medical advice.

In case of eye contact

Spreading the eyelids, rinse thoroughly under running water, see an eye specialist.

If swallowed

Make the person rinse out the mouth and drink plenty of water, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION5 Firefightingmeasures

5.1 Extinguishing media

Suitable extinguishing media

Sprinkling water, solid extinguishing agent, CO₂, foam resistant to alcohol.

Unsuitable extinguishing media

Direct water-jet.

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- 5.2 Special hazards arising from the substance or mixture
Thermal decomposition to carbon monoxide and organic cracked products.
- 5.3 Advice for firefighters
Tightly closing fireproof clothing and oxygen apparatus.
- 5.4 Further information
No data available.

SECTION6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
See section 8 "Exposures controls/personal protection".
- 6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow the product to enter waters. Discharge into the environment must be avoided.
- 6.3 Methods and material for containment and cleaning up
Pick up with an inert absorbable material and dispose according to local regulations, unless otherwise usable.
- 6.4 Reference to other sections
For disposal, see section 13.

SECTION7 Handling and storage

- 7.1 Precautions for safe handling
Keep container cool and tightly closed, take care of sufficient ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities
Keep away container from concentrated mineral acids and strong oxidising agents. Cool endangered containers with sprinkling water. Before decanting earth containers because of danger of electrostatic charges.
- 7.3 Specific end uses
No data available.

SECTION8 Exposure controls/personal protection

- 8.1 Control parameters

Substances for which there are Community workplace exposure limits

2-Butoxyethanol

EC No 203-905-0

CAS No 111-76-2

Index No 603-014-00-0

Limit value (eight hours) 98 mg/m³ (20 ppm)

Limit value (15 minutes) 246 mg/m³ (50 ppm)

Resorption by skin Applicable.

Methanol

EC No 200-659-6

CAS No 67-56-1

Index No 603-001-00-X

Registration No 01-2119433307-44

Limit value (eight hours) 260 mg/m³ (200 ppm)

Limit value (15 minutes) Not available.

Resorption by skin Applicable.

Components with workplace control parameters (TRGS 900 Germany)

2-Butoxyethanol

EC No 203-905-0

CAS No 111-76-2

Index No 603-014-00-0

AGW

10 ml/m³ (ppm) – 49 mg/m³

Peak limit factor of exceeding 4(II)

Remarks

H, Y, AGS

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n-Butyl acetate
EC No 204-658-1 CAS No 123-86-4 Index No 607-025-00-1
AGW 62 ml/m³ (ppm) – 300 mg/m³
Peak limit factor of exceeding 2(I)
Remarks AGS, Y

Methanol
EC No 200-659-6 CAS No 67-56-1 Index No 603-001-00-X Registration No 01-2119433307-44
AGW 200 ml/m³ (ppm) – 270 mg/m³
Peak limit factor of exceeding 4(II)
Remarks DFG, EU, H, Y

Components with workplace control parameters (TRGS 903 Germany)

2-Butoxyethanol
EC No 203-905-0 CAS No 111-76-2 Index No 603-014-00-0
BGW 100 mg/l
Parameter Butoxyacetic acid
Testing material Urine
Time of sampling Long time exposure: after several preceding shifts.

Methanol
EC No 200-659-6 CAS No 67-56-1 Index No 603-001-00-X Registration No 01-2119433307-44
BGW 30 mg/l
Parameter Methanol
Testing material Urine
Time of sampling End of exposure or shift.
Long time exposure: after several preceding shifts.

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with the skin and the eyes. When using do not eat, drink or smoke; preventive skin protection.

Personal protective equipment

Respiratory protection

In case of exceeding of permitted exposure limit in closed rooms use a self-contained breathing apparatus.

Eye protection

Use tightly closing protective goggles with lateral protection.

Skin protection

Use protective gloves according to EN 374-2 consisting of butyl rubber, layer thickness 0.5 mm, breakthrough time > 480 min. or fluorocarbon rubber, layer thickness 0.4 mm, breakthrough time > 480 min.

Body Protection

Use protective clothing consisting of rubber or plastics.

SECTION9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | | |
|-------------------------------------|--------|-------------|-----------|--------------------------|
| Appearance | | | | |
| Aggregate state | liquid | Colour | yellowish | |
| | | | Odour | ester-like |
| Melting point/freezing point | | | | Not available. |
| Initial boiling point/boiling range | | | | Not available. |
| Flash point | | | 25 | °C |
| pH | | (T = 20 °C) | | Not available. |
| Flammability | | | | Flammable. |
| Ignition temperature | | | | Not available. |
| Auto flammability | | | | Not applicable. |
| Oxidising properties | | | | Not applicable. |
| Explosive properties | | | | For vapour/air mixtures. |
| Explosion limits | | lower | | Not available. |

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| | | | |
|---|----------------------|------|---|
| Density | upper (T = 20 °C) | 1.09 | Not available. g/ml |
| Water solubility | (T = 20 °C) | | Practically insoluble (decomposition by hydrolysis) |
| Vapour pressure | (T = 20 °C) | | Not available |
| Vapour density (air = 1) | | | Not available. |
| Partition coefficient (n-octanol/water) | | | Not available. |
| Viscosity | (T = 20 °C) | | Not available. |
| Separation of solvent | | | Not applicable. |
| Content of solvents (VOC EU) | | 30 | g/l |
| Evaporation rate | | | Not available. |

9.2 Other information
No data available.

SECTION 10 Stability and reactivity

- 10.1 Reactivity
No data available.
- 10.2 Chemical stability
This product is stable.
- 10.3 Possibility of hazardous reactions
Strong oxidising agents and concentrated mineral acids.
- 10.4 Conditions to avoid
No data available.
- 10.5 Incompatible materials
Water.
- 10.6 Hazardous decomposition products
In case of fire only, see section 5.2.

SECTION 11 Toxicological information

- 11.1 Information on toxicological effects
- Mixtures
- Acute toxicity
No data available.
- Irritation
This product is irritating to eyes and skin.
- Corrosivity
No data available.
- Sensitisation
This product causes sensitisation by skin contact.
- Repeated dose toxicity
No data available.
- Carcinogenicity
No data available.
- Mutagenicity
No data available.
- Toxicity for reproduction
No data available.

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Signs and symptoms of exposure
See section 4.2.

Additional information
No data available.

SECTION12 Ecologicalinformation

- 12.1 Toxicity
No data available.
- 12.2 Persistence and degradability
No data available.
- 12.3 Bioaccumulative potential
No data available.
- 12.4 Mobility in soil
No data available.
- 12.5 Results of PBT and vPvB assessment
According to the available statements the criteria are not fulfilled for the classification as a PBT or vPvB.
- 12.6 Other adverse effects
Spilling product harms waters by high consumption of oxygen and general pollution impact.

SECTION13 Disposal considerations

- 13.1 Waste treatment methods
Dangerous waste according to the European waste catalogue (2000/532/EC). If recycling is not possible, wastes must be eliminated according to the provisions of the local authorities. Do not dispose by the sewage.

Waste codes

20 01 27 Paint, inks, adhesives and resins containing dangerous substances.
15 01 10 Packaging containing residues of or contaminated by dangerous substances.

SECTION14 Transportinformation

- 14.1 UN number
1263
- 14.2 Proper shipping name

ADR/RID
Paint.

IMDG-Code / ICAO-TI / IATA-DGR
Paint.
- 14.3 Transport hazard class(es)
3 (flammable liquids)
- 14.4 Packing group
III (substances presenting low danger)
- 14.5 Environmental hazards

Labelling of environmentally dangerous substances
ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR Not applicable.
Marine Pollutant Not applicable.
- 14.6 Special precautions for user
Not available.

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- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15 Regulatory information

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

Regulations of the EU

Denomination in Annex I of the Directive 96/82/EC on the control of major-accident hazards involving dangerous substances Observe threshold values of section 6.

Directive 1998/8/EC for the marketing of biocide products
Not applicable.

Regulation (EC) No 648/2004 (Regulation concerning detergents)
Not applicable.

Directive 1999/13/EC for the limitation of emissions of volatile organic compounds (VOC)
May be applicable.

German Regulations

Occupation restriction

Yes.

Technical instructions on maintaining air purity (TA Luft 2002) Observe threshold values for organic materials according to section 5.2.5 and for paint particles according to section 5.4.5.1.

Water hazard class

WGK 2 (hazardous to waters)

Storage class according to TRGS 510

LGK 3 (flammable liquids)

Other regulations, restrictions and prohibition ordinances

Observe the information sheets M 004 and M 017 of the BG Chemie.

- 15.2 Chemical safety assessment

This mixture was not subject to a safety assessment.

SECTION 16 Other information

The text of the hazard statement codes of section 3

| | |
|-------------------------|---|
| Flam. Liq. 2; H225 | Flammable liquids (category 2); Highly flammable liquid and vapour. |
| Flam. Liq. 3; H226 | Flammable liquids (category 3); Flammable liquid and vapour. |
| Skin. Irrit. 2; H315 | Skin corrosion/irritation (category 2); Causes skin irritation. |
| Skin Sens. 1; H317 | Sensitisation – Skin (category 1); May cause an allergic skin reaction. |
| Eye Irrit. 2; H319 | Serious eye damage/eye irritation (category 2); Causes serious eye irritation. |
| Acute Tox. 3; H301 | Acute toxicity, oral (category 3); Toxic if swallowed. |
| Acute Tox. 3; H311 | Acute toxicity, dermal (category 3); Toxic in contact with skin. |
| Acute Tox. 3; H331 | Acute toxicity, inhalation (category 3); Toxic if inhaled. |
| Acute Tox. 4; H302 | Acute toxicity, oral (category 4); Harmful if swallowed. |
| Acute Tox. 4; H312 | Acute toxicity, dermal (category 4); Harmful in contact with skin. |
| Acute Tox. 4; H332 | Acute toxicity, inhalation (category 4); Harmful if inhaled. |
| STOT SE 3; H336 | Specific target organ toxicity – Single exposure (category 3) narcosis; May cause drowsiness or dizziness. |
| STOT SE 1; H370 | Specific target organ toxicity – Single exposure (category 1); Causes damage to organs in contact with skin, by inhalation or if swallowed. |
| Aquatic Acute 1; H400 | Hazardous to the aquatic environment – Acute Hazard (category 1); Very toxic to aquatic life. |
| Aquatic Chronic 1; H410 | Hazardous to the aquatic environment – Chronic Hazard (category 1); Very toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

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| | |
|--------------|---|
| R10 | Flammable. |
| R11 | Highly flammable. |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. |
| R36 | Irritating to eyes. |
| R36/38 | Irritating to eyes and skin. |
| R38 | Irritating to skin. |
| R43 | May cause sensitisation by skin contact. |
| R50 | Very toxic to aquatic organisms. |
| R53 | May cause long-term adverse effects in the aquatic environment. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |

This safety data sheet is developed on basis of the valid EU regulations and German regulations. It shows the present state of the knowledge and is no contractual warranty of quality properties of the product. These statements may not be changed or transferred to other products. Duplication in unchanged state is permitted.

Abbreviations

| | |
|-----------|--|
| AGS | Committee on Hazardous Substances AGW Permitted exposure limit during work hours |
| BGW | Permitted biological limit value for work place |
| Y | No harm to the unborn child, if values of AGW and BGW are kept |
| EU | European Union |
| DFG | German Research Community |
| PBT | Persistent, bioaccumulative and toxic vPvB Very persistent and very bioaccumulative |
| TRGS | Technical regulation for dangerous substances |
| WGK | Water hazard class |
| LGK | Storage class |
| BG Chemie | Employer's liability insurance association of the German chemical industry |