

SAFETY DATA SHEET

according to Regulation (EU) No 453/2010

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SECTION1 Identificationofthesubstance/mixtureandofthecompany/undertaking

- 1.1 Product identifier
Unicoatings UC 2K Hardener
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Hardener for two-component lacquer systems.
- 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
Acute toxicity, oral (category 4)
Skin corrosion/irritation (category 1B)
Sensitisation – Skin (category 1)

according to Directives 67/548/EEC and 1999/45/EC
Xn – Harmful.
C – Corrosive.
May cause sensitisation by skin contact.

- 2.2 Label elements

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



GHS05



GHS07

Signal word Danger.

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P405	Store locked up.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Name of the ingredient given on the warning label

3-Aminopropyltriethoxysilane, isophorondiamine, trimethylhexane-1,6-diamine.

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



C – Corrosive.

Risk phrases

R22 Harmful if swallowed.
R34 Causes burns.
R43 May cause sensitisation by skin contact.

Safety advice

S7 Keep container tightly closed.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Name of the ingredient given on the warning label

3-Aminopropyltriethoxysilane, isophorondiamine, trimethylhexane-1,6-diamine.

2.3 Other hazards
Unknown.

SECTION3 Composition/information on ingredients

3.1 Substances
This product is a mixture.

3.2 Mixtures
Aminish silicon compounds with additives.

Hazardous ingredients

3-Aminopropyltriethoxysilane

EC No 213-048-4 CAS No 919-30-2

Content > 50 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

Xn; R22 – C; R34 – R43

Acute Tox. 4; H302 – Skin Corr. 1B; H314 –
Skin Sens. 1; H317

Benzyl alcohol

EC No 202-859-9 CAS No 100-51-6

Content 2.5 - < 5 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

Index No 603-057-00-5

Xn; R20/22

Acute Tox. 4; H302, H332

Isophorondiamine

EC No 220-666-8 CAS No 2855-13-2

Content 1 - < 2.5 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

Index No 612-067-00-9

Xn; R21/22 – C; R34 – R43 – R52, R53

Acute Tox. 4; H312, H302 – Skin Corr. 1B; H314 –
Skin Sens. 1; H317 – Aquatic Chronic 3; H412

Trimethylhexane-1,6-diamine

EC No 247-134-8 CAS No 25620-58-0

Content 1 < 2,5 %

Classification according to Directive 67/548/EEC

Classification according to Regulation (EC) No 1272/2008

Xn; R22 – C; R34 – R43 – R52, R53

Acute Tox. 4; H302 – Skin Corr. 1B; H314 –
Skin Sens. 1; H317 – Aquatic Chronic 3; H412

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

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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 immediately.

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.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition to carbon monoxide and nitrogen-organic cracked products.

5.3 Advice for firefighters

Tightly closing fireproof clothing and oxygen apparatus.

5.4 Further information

No data available.

SECTION6 Accidentalrelease 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.

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SECTION7 Handling andstorage

- 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.
- 7.3 Specific end uses
No data available.

SECTION8 Exposure controls/personalprotection

- 8.1 Control parameters
Not applicable.
- 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 insufficiently ventilated areas use a breathing mask with filter type A or 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 andchemical properties

- 9.1 Information on basic physical and chemical properties

Appearance				
Aggregate state	liquid	Colour	yellowish	
			Odour	amine-like
Melting point/freezing point				Not available.
Initial boiling point/boiling range				Not available.
Flash point			96	°C
pH		(T = 20 °C)		Not available.
Flammability				Low flammability.
Ignition temperature				Not available.
Auto flammability				Not applicable.
Oxidising properties				Not applicable.
Explosive properties				For vapour/air mixtures.
Explosion limits		lower		Not available.
		upper		Not available.
Density		(T = 20 °C)	0.955	g/ml
Water solubility		(T = 20 °C)		Practically insoluble.
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.

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- 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
No data available.
- 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
The product is irritating to skin and causes serious eye damage.
- Corrosivity
The product causes burns.
- 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.
- Signs and symptoms of exposure
See section 4.2.
- Additional information
No data available.

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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
3066
- 14.2 Proper shipping name
ADR/RID
Paint related material.
IMDG-Code / ICAO-TI / IATA-DGR
Paint related material.
- 14.3 Transport hazard class(es)
8 (corrosive substances)
- 14.4 Packing group
II (substances presenting medium 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.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

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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 Not applicable.

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 Observe threshold values for organic materials according to section 5.2.5. (TA Luft 2002)

Water hazard class WGK 2 (hazardous to waters)

Storage class according to TRGS 510 LGK 8 A (flammable corrosive substances)

Other regulations, restrictions and prohibition ordinances

Observe the information sheet M 004 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

Skin Corr. 1B; H314	Skin corrosion/irritation (category 1B); Causes severe skin burns and eye damage.
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. 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.
Aquatic Chronic 3; H412	Hazardous to the aquatic environment – Chronic Hazard (category 3); Harmful to aquatic life with long lasting effects.
R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

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

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