

**! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Name of product GMK 2510 Adhesive
Code-Nr. 162000

1.2. Relevant identified uses of the substance or mixture and uses advised against**Uses advised against****Remark**

This product is not to be used for carpet laying. This product is not to be used under conditions of poor ventilation.

Recommended intended purpose(s)

Adhesives, sealants (PC1).

1.3. Details of the supplier of the safety data sheet**Distributor**

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

! SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Flam. Liq. 2	H225	
Skin Irrit. 2	H315	

! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Eye Irrit. 2	H319	
STOT SE 3	H336	
Asp. Tox. 1	H304	
Aquatic Acute 1		
Aquatic Chronic 1	H410	

Hazard Statements

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.
H410	Very toxic to aquatic life with long lasting effects.

Additional hints

This product is not to be used for carpet laying. This product is not to be used under conditions of poor ventilation.

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]


GHS02



GHS07



GHS08



GHS09

! Signal word

Danger

Hazard Statements

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.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P310	IF SWALLOWED: 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.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use foam for extinction.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling

cyclohexane, ethyl-acetate

Special rules for supplemental label elements for certain mixtures

Contains Colophony. May produce an allergic reaction.

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Mixture of solvents

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
110-82-7	203-806-2	cyclohexane	< 45	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / Skin Irrit. 2, H315 / STOT SE 3, H336 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
141-78-6	205-500-4	ethyl-acetate	< 45	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
8050-09-7	232-475-7	colophony	0,1 - 1	Skin Sens. 1, H317
1314-13-2	215-222-5	zinc oxide	< 5	Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

REACH

CAS No	Name	REACH registration number
110-82-7	cyclohexane	01-2119463273-41
141-78-6	ethyl-acetate	01-2119475103-46
8050-09-7	colophony	01-2119480418-32
1314-13-2	zinc oxide	01-2119463881-32

! SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove moisted clothing immediately.

Take affected person into fresh air.

! In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinsing with plenty of lukewarm water carefully and seek for medical treatment.

In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed**! Physician's information / possible symptoms**

Headache

Confusion

Gastrointestinal complaints

! Physician's information / possible dangers

asthmatic symptoms

4.3. Indication of any immediate medical attention and special treatment needed**! Treatment (Advice to doctor)**

Monitor circulation.

! SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam

ABC powder

Carbon dioxide

Water spray jet

! Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

! SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

! SECTION 7: Handling and storage**7.1. Precautions for safe handling****! Advice on safe handling**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

! General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

Ensure sufficient ventilation.

Hygiene measures

At work do not eat, drink and smoke.

Keep separated from food and feed.

Wash hands before breaks and after work.

Use barrier skin cream.

! Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Protect from heat and sunlight.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in original container.

Advice on storage compatibility

Do not store with acids.

Do not store with oxidizing agents.

Do not store together with food.

! Further information on storage conditions

Store at +5 till +25 °C.

Keep container tightly closed and store at cool and aired place.

Store only at temperature of 30°C maximum (=86°F).



Protect from heat and direct solar radiation.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

! SECTION 8: Exposure controls/personal protection**8.1. Control parameters****! Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
110-82-7	Cyclohexane	8 hours Short-term	350 1050	1050 300	EH40/2005
141-78-6	Ethyl acetate	8 hours Short-term		200 400	EH40/2005
8050-09-7	Rosin-based solder flux fume	8 hours Short-term	0.05 0.15		EH40/2005

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
110-82-7	cyclohexane	8 hours	700	200	

DNEL-/PNEC-values**DNEL worker**

CAS No	Substance name	Value	Code	Remark
110-82-7	cyclohexane	700 mg/m3	DNEL acute inhalative (systemic)	
		700 mg/m3	DNEL long-term inhalative (systemic)	
1314-13-2	zinc oxide	83 mg/kg	DNEL long-term dermal (systemic)	
		5 mg/m3	DNEL long-term inhalative (systemic)	
141-78-6	ethyl-acetate	1468 mg/m3	DNEL acute inhalative (local)	
		63 mg/kg	DNEL long-term dermal (systemic)	
		734 mg/m3	DNEL long-term inhalative (local)	
		1468 mg/m3	DNEL acute inhalative (systemic)	
8050-09-7	colophony	25 mg/kg bw/day	DNEL long-term dermal (systemic)	
		176,32 mg/ m3	DNEL long-term inhalative (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
110-82-7	cyclohexane	3,627 mg/ kg dw	PNEC sediment, marine water	
		0,207 mg/l	PNEC aquatic, intermittent release	
		3,24 mg/l	PNEC sewage treatment plant (STP)	
1314-13-2	zinc oxide	117,8 mg/kg	PNEC sediment, freshwater	
		56,5 mg/kg	PNEC sediment, marine water	
		0,0206 mg/l	PNEC aquatic, freshwater	



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DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
141-78-6	ethyl-acetate	0,0061 mg/l	PNEC aquatic, marine water	
		0,024 mg/l	PNEC aquatic, marine water	
		0,34 mg/kg	PNEC sediment, freshwater	
		0,24 mg/l	PNEC aquatic, freshwater	
8050-09-7	colophony	0,115 mg/kg	PNEC sediment, marine water	
		10,8 mg/kg dw	PNEC sediment, marine water	
		21,4 mg/kg dw	PNEC soil, freshwater	
		1000 mg/l	PNEC sewage treatment plant (STP)	
		108 mg/kg dw	PNEC sediment, freshwater	
		0,0005 mg/l	PNEC aquatic, marine water	
		0,005 mg/l	PNEC aquatic, freshwater	

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls

! Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, filter A

! Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Not suitable: PVC gloves

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: FKM, NBR (Nitrile rubber), >=8 h, 0,35 - 0,4 mm

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

black

Odour

fruity

Odour threshold

No data available

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling range	77 - 82 °C				
melting point	not determined				
Flash point	-11 °C				
Vapourisation rate					No data available
Flammable (solid)	not determined				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	1 Vol-%				
Upper explosion limit	12,8 Vol-%				
Vapour pressure	104 hPa	20 °C			CAS: 110-82-7
Relative density	0,88 g/cm ³				
Bulk density	No data available				
Vapour density	No data available				
Solubility in water					immiscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity dynamic	ca. 1700 mPa*s	20 °C			
Viscosity kinematic	not determined				
Solvent content	ca. 80 %				
Solids content	ca. 20 %				
Oxidising properties	No data available				

**Explosive properties**

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

9.2. Other information

Vapours are heavier than air.

! SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

10.4. Conditions to avoid

In case of temperature increase (heating): explosion risk.

Keep away from heat.

10.5. Incompatible materials**! Substances to avoid**

Oxidising agent

10.6. Hazardous decomposition products

Gases/vapours, toxic

Carbon monoxide

Carbon dioxide

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat	OECD 401	CAS: 110-82-7
LD50 acute dermal	> 2000 mg/kg	rabbit	OECD 402	CAS: 110-82-7
LC50 acute inhalation	> 32,88 mg/l (4 h)	rat	OECD 403	CAS: 110-82-7
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	non-sensitizing			

**Subacute Toxicity - Carcinogenicity**

Value	Species	Method	Validation
Mutagenicity			No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity			No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity			No indications of carcinogenic effects are available from long-term trials.

! Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

! Aspiration hazard

May be fatal if swallowed and enters airways.

! Experiences made from practice

Risk of strong health injuries in case of long-term exposition.

Irritates respiratory tract.

May cause drowsiness or dizziness.

Irritates mucous membranes.

Irritates eyes and skin.

! Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product has not been tested. The information is derived from the properties of the individual components.

! SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 4,53 mg/l (96 h)	Fish	OECD 203	CAS: 110-82-7
Daphnia	EC50 2,4 mg/l (48 h)	Daphnia magna	OECD 202	CAS: 110-82-7
Algae	NOEC 0,94 mg/l	Green algae		CAS: 111-40-0

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	77 % (28 d) CAS: 110-82-7		OECD 301 F	readily degradable
Degradability	79 % (20 d) CAS: 141-78-6		OECD 301 D	Readily biodegradable (to OECD criteria)

12.3. Bioaccumulative potential

Cyclohexane: Slight bioaccumulation potential.

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil



No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

! General regulation

Very toxic to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

! SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

08 04 09*

Name of waste

waste adhesives and sealants containing organic solvents or other hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

! Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

Recommendations for packaging

Dispose of according to the local waste regulations.

Packaging that cannot be cleaned should be disposed of like the product.

! General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1133	1133	1133
14.2. UN proper shipping name	ADHESIVES (cyclohexane)	ADHESIVES (cyclohexane)	Adhesives (cyclohexane)
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	II	II	II
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable



Land and inland navigation transport ADR/RID

Hazard label(s) 3
tunnel restriction code D/E
Special provisions 640D
Classification code F1

Marine transport IMDG

MARINE POLLUTANT

! SECTION 15: Regulatory information

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

VOC standard

VOC content	ca.80 %
VOC value	ca.704 g/L

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

! SECTION 16: Other information

! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.
For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 2.0

H225	Highly flammable liquid and vapour.
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