

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

Name of product GMK 2410
Code-Nr. 161000

1.2. Relevant identified uses of the substance or mixture and uses advised against**Recommended intended purpose(s)**

1-Component Adhesives and Sealants

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	
Eye Irrit. 2	H319	
STOT SE 3	H336	
Asp. Tox. 1		
Aquatic Acute 1		
Aquatic Chronic 1	H410	

Hazard Statements

H225 Highly flammable liquid and vapour.

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



GHS09

Signal word

Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
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.
P280	Wear protective gloves/eye protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use foam for extinction.
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.
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

Product has an anesthetic effect.

Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

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**

Compound

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	< 40	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	< 40	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1330-20-7	215-535-7	xylene	< 0,5	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315
8050-09-7	232-475-7	colophony	0,1 < 1	Skin Sens. 1, H317
1314-13-2	215-222-5	zinc oxide	< 1	Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
128-37-0	204-881-4	2,6-Di-tert.-butyl-p-cresol	< 0,3	Aqu. Acute 1, H400 M=1 / Aqu. Chronic 1, H410 M=1
1309-48-4		Magnesiumoxid	< 2	

REACH

CAS No	Name	REACH registration number
110-82-7	cyclohexane	01-2119463273-41
141-78-6	ethyl-acetate	01-2119475103-46
1330-20-7	xylene	01-2119488216-32
8050-09-7	colophony	01-2119480418-32
1314-13-2	zinc oxide	01-2119463881-32
128-37-0	2,6-Di-tert.-butyl-p-cresol	01-2119555270-46
1309-48-4	Magnesiumoxid	not subject to registration

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

Remove contaminated soaked clothing immediately.

Seek medical treatment immediately.

Take away from danger area and lay down affected person.



In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

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

Consult a doctor if skin irritation persists.

In case of eye contact

After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

Headache

Confusion

Dizziness

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

Alcohol-resistant foam

Dry powder

Carbon dioxide

sand

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

May lead to formation of explosive/easily ignitable vapour air mixtures.

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

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

Vapours are heavier than air and will spread on the ground.

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 or bodies of water..

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

6.3. Methods and material for containment and cleaning up

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

Disposal according to regulations.

Additional Information

Sort out leaky cans and dispose according to regulations.

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.

Open and handle container with care!

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.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

Wash hands before breaks and after work.

! 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.

In case of special conditions product may dust-explode.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

**! Further information on storage conditions**

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

Protect from heat and direct solar radiation.

Do not keep at temperatures above 20°C.

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
128-37-0	2,6-Di-tert-butyl-p-cresol	8 hours	10		EH40/2005
141-78-6	Ethyl acetate	8 hours Short-term		200 400	EH40/2005
7085-85-0	Ethyl cyanoacrylate	8 hours Short-term	1.5	0.3	EH40/2005
1309-48-4	Magnesium oxide (as Mg): total inhalable dust	8 hours	10		EH40/2005
1309-48-4	Magnesium oxide (as Mg): fume and respirable dust	8 hours Short-term	4 10		EH40/2005
8050-09-7	Rosin-based solder flux fume	8 hours Short-term	0.05 0.15		EH40/2005
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours Short-term	220 441	50 100	EH40/2005
141-78-6	Ethylacetat (CH)	MAK, 8 hours Short-term	2800 1400	800 400	OAW, Auge, Methode: INRS, NIOSH
1330-20-7	Xylol (alle Isomeren) (CH)	MAK, 8 hours Short-term	870 435	200 100	OAW & Auge, ZNS, Schwindel, Methode: INRS, NIOSH

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	
1330-20-7	xylene, mixed isomers, pure	8 hours Short-term	221 442	50 100	skin

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

CAS No	Substance name	Value	Code	Remark
128-37-0	2,6-Di-tert.-butyl-p-cresol	0,5 mg/kg bw/day 3,5 mg/kg bw/day	DNEL long-term dermal (systemic) DNEL long-term inhalative (systemic)	
1314-13-2	zinc oxide	83 mg/kg	DNEL long-term dermal (systemic)	

DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
		5 mg/m ³	DNEL long-term inhalative (systemic)	
141-78-6	ethyl-acetate	1468 mg/m ³	DNEL acute inhalative (systemic)	
		734 mg/m ³	DNEL long-term inhalative (local)	
		63 mg/kg	DNEL long-term dermal (systemic)	
		1468 mg/m ³	DNEL acute inhalative (local)	
8050-09-7	colophony	25 mg/kg bw/day	DNEL long-term dermal (systemic)	
		176,32 mg/m ³	DNEL long-term inhalative (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
128-37-0	2,6-Di-tert.-butyl-p-cresol	99,6 µg/l	PNEC sediment, freshwater	
		47,69 µg/l	PNEC soil, freshwater	
		0,0199 µg/l	PNEC aquatic, marine water	
		0,199 µg/l	PNEC aquatic, freshwater	
1314-13-2	zinc oxide	0,0061 mg/l	PNEC aquatic, marine water	
		0,0206 mg/l	PNEC aquatic, freshwater	
		56,5 mg/kg	PNEC sediment, marine water	
		117,8 mg/kg	PNEC sediment, freshwater	
141-78-6	ethyl-acetate	0,34 mg/kg	PNEC sediment, freshwater	
		0,24 mg/l	PNEC aquatic, freshwater	
		0,024 mg/l	PNEC aquatic, marine water	
		0,115 mg/kg	PNEC sediment, marine water	
8050-09-7	colophony	0,005 mg/l	PNEC aquatic, freshwater	
		10,8 mg/kg dw	PNEC sediment, marine water	
		21,4 mg/kg dw	PNEC soil, freshwater	
		0,0005 mg/l	PNEC aquatic, marine water	
		1000 mg/l	PNEC sewage treatment plant (STP)	
		108 mg/kg dw	PNEC sediment, freshwater	

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls
Respiratory protection

If ventilation insufficient, wear respiratory protection.

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

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.

Not suitable: PVC gloves

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

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

Sufficient ventilation and exhaustion.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

liquid

Colour

yellowy-brown

Odour

fruity

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	77 - 82 °C				
melting point	not determined				
Flash point	-11 °C				
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	1 Vol-%				
Upper explosion limit	12,8 Vol-%				
Vapour pressure	104 hPa	20 °C			Cyclohexane
Relative density	0,94 g/cm ³	20 °C			
Vapour density	not determined				



	Value	Temperature	at	Method	Remark
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. 2300 mPa*s	20 °C			
Viscosity kinematic	not determined				
Solids content	ca. 32 %				

Oxidising properties

No information available.

Explosive properties

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

9.2. Other information

No information available.

! 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, strong

10.6. Hazardous decomposition products

Carbon monoxide and 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.

Experiences made from practice

Vapours may cause dizziness, headaches and tiredness

May irritate the mucosae.

Inhalation can cause damage to the respiratory tract or lungs.

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 0,14 - 1,1 mg/l (96 h)	Oncorhynchus mykiss		CAS: 1314-13-2
Daphnia	EC50 5 mg/l (48 h)	Daphnia magna		CAS: 1314-13-2
Algae	ErC50 0,14 mg/l (96 h)	Pseudokirchneriella subcapitata		CAS: 1314-13-2

**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	> 60 % (10 d) CAS: 1330-20-7		OECD 301 F	Readily biodegradable (to OECD criteria)

12.3. Bioaccumulative potential

Cyclohexane: Slight bioaccumulation potential.

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 the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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.

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 and Ethyl acetate)	ADHESIVES (Cyclohexane and Ethyl acetate)	Adhesives (Cyclohexane and Ethyl acetate)



	ADR/RID	IMDG	IATA-DGR
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.752 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: 8.8

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 01.08.2018

revision 01.08.2018 (GB) Version 8.9

GMK 2410

H410 Very toxic to aquatic life with long lasting effects.