

Weicon GmbH

Revision date: 07.08.2011

Revision no.:

1,00

GMK 2410, Rubber Metal Adhesive

7619-0273

1. Product and Company Identification**Commercial product name**

GMK 2410, Rubber Metal Adhesive

Further trade names

161000

Chemical characterization (Mixture)**Company/undertaking identification****Manufacturer**

Weicon GmbH

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2. Hazards Identification**Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

Signs and Symptoms of Exposure

DANGER!

Highly flammable

Irritating to eyes and skin.

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

3. Composition/Information on Ingredients**Hazardous components**

CAS No.	Components	Quantity
110-82-7	cyclohexane	<40 %
141-78-6	ethyl acetate	<40 %
1314-13-2	zinc oxide	<2.5 %

4. First Aid Measures**General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

After inhalation

Move victim to fresh air.

In the event of symptoms refer for medical treatment.

Weicon GmbH

Revision date: 07.08.2011

Revision no.:

1,00

GMK 2410, Rubber Metal Adhesive

7619-0273

After contact with skin

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

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

Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.

If swallowed give water to drink.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

Advice to physician

In the event of pulmonary irritation treat initially with dexamethasone metered-dose aerosol.

5. Fire Fighting Measures

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet

Special hazards arising from the chemical

Fire may produce:

Carbon monoxide and carbon dioxide.

Hydrogen chloride (HCl)

Protective equipment and precautions for firefighters

Do not inhale explosion and/or combustion gases.

Use breathing apparatus with independent air supply.

Protective suit.

Additional information

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

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

6. Accidental Release Measures

Personal precautions

In case of vapour formation use respirator.

Keep away sources of ignition.

Ensure adequate ventilation.

Use personal protective clothing.

Environmental precautions

Clean contaminated surface thoroughly.

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

Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

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

Shovel into suitable container for disposal.

Additional information

Information for personal protective equipment look up chapter 8.

7. Handling and Storage

Handling

Advice on safe handling

Keep container tightly closed.

Weicon GmbH

Revision date: 07.08.2011

Revision no.:

1,00

GMK 2410, Rubber Metal Adhesive

7619-0273

Use only in thoroughly ventilated areas.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Do not smoke - volatile.

Keep away from open flames, hot surfaces and sources of ignition.

The product is easy combustible.

Take precautionary measures against static discharges.

Further information on handling

Use explosion-proof equipment / fittings and non-sparking tools.

Corrodes steel.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Protect against direct sun radiation.

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

Advice on storage compatibility

Incompatible with:

Oxidizing agents

8. Exposure Controls/Personal Protection**Exposure limit values****Exposure limits**

CAS No.	Components	ppm	mg/m ³	fib/cc	Category	Origin
110-82-7	Cyclohexane	300	1050		TWA (8 h)	REL
		300	1050		TWA (8 h)	REL
		100	350		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	REL
		400	1400		TWA (8 h)	REL
		400	1440		TWA (8 h)	TLV
		-	-		STEL (15 min)	TLV
		-	-		Peak	TLV
1314-13-2	Zinc oxide	-	2 R		TWA (8 h)	TLV
		-	10 R		STEL (15 min)	TLV
		-	-		Peak	TLV
1314-13-2	Zinc oxide (Dust)	-	5		TWA (8 h)	REL
		-	C 15		Ceiling	REL
1314-13-2	Zinc oxide Respirable fraction	-	5		TWA (8 h)	REL

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale gases/vapours/aerosols.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

Weicon GmbH

Revision date: 07.08.2011

Revision no.:

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GMK 2410, Rubber Metal Adhesive

7619-0273

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.2 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Dermatril P 743> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the GISBAU protective gloves database under:

<http://www.wingisonline.de/handschuhe/frmMain.aspx>

Eye protection

Eye wash bottle with pure water.

Tightly fitting goggles

Skin protection

Light protective clothing

9. Physical and Chemical Properties**Appearance**

Form:	Liquid
Color:	Brownish
Odor:	Fruity

Important health, safety and environmental information

	Test method
pH-Value:	n.a.

Changes in the physical state

Boiling point:	approx. 70 °C	Solvent
Flash point:	approx. -18 °C	DIN ISO 2592

Explosive properties

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

Lower explosion limits:	1 vol. %
Upper explosion limits:	8.3 vol. %
Vapour pressure: (at 20 °C)	approx. 103 hPa Solvent
Density (at 20 °C):	0,91 g/cm ³
Water solubility: (at 20 °C)	More or less insoluble
Viscosity / dynamic: (at 20 °C)	approx. 2300 mPa·s

Other information

Ignition temperature:	>200 °C
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10. Stability and Reactivity**Stability**

Stable

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Materials to avoid

Reactions with strong oxidizing agents.

Weicon GmbH

Revision date: 07.08.2011

Revision no.:

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GMK 2410, Rubber Metal Adhesive

7619-0273

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Hydrogen chloride (HCl)

Possibility of Hazardous Reactions

Will not occur

Further information

No decomposition if stored and applied as directed.

11. Toxicological Information**Acute toxicity**

Inhalation causes narcotic effect/intoxication.

Irritation and corrosivity

Skin irritation : Irritant

Eye irritation :Irritant

Frequent persistent contact with the skin may cause skin irritation.

Empirical data on effects on humans

Harmful by inhalation and if swallowed.

12. Ecological Information**Further information**

Do not discharge product unmonitored into the environment.

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

13. Disposal considerations**Advice on disposal**

Remove in accordance with local official regulations.

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

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

14. Transport Information**US DOT 49 CFR 172.101****Proper shipping name**

ADHESIVES

ID Number:

UN1133

Hazard Class or Division:

3

Packing group:

III

Label:

3

Land transport (ADR/RID)

UN number:

1133

ADR/RID class:

3

Classification Code:

F1

Warning plate

Hazard-no.:

30

Hazard label:

3

Weicon GmbH

Revision date: 07.08.2011

Revision no.:

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GMK 2410, Rubber Metal Adhesive

7619-0273



ADR/RID packing group: III
 Limited quantity: 5 l

Description of the goods

ADHESIVES

Marine transport

UN number: 1133
 IMDG code: 3
 Marine pollutant: No
 Hazard label: 3



IMDG packing group: III
 EmS: F-E; S-D
 Limited quantity: 5 L / 30 kg

Description of the goods

ADHESIVES

Air transport

UN/ID number: 1133
 ICAO/IATA-DGR: 3
 Hazard label: 3



ICAO packing group: III
 Limited quantity Passenger: Y309 / 10 L
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

Description of the goods

ADHESIVES

15. Regulatory Information**U.S. Regulations****National Inventory TSCA**

All of the components are on the TSCA Inventory.

SARA

This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372. Any such toxic chemical(s) are shown below.

Cyclohexane CAS No. 110-82-7 (max. 40%)

State Regulations

This product contains max VOC: <80%

Additional information

GISCODE according to industry-specific regulation acid-proof construction of May 11th, 2006

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GMK 2410, Rubber Metal Adhesive

7619-0273

16. Other Information**Hazardous Materials Information Label (HMIS)**

Health: 2

Flammability: 3

Physical Hazard: 0

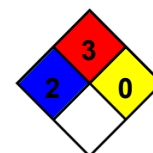
NFPA Hazard Ratings

Health: 2

Flammability: 3

Reactivity: 0

Unique Hazard:

**Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)