



SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product name

TERMOKOL, TERMOKOL ULTRA, TERMOKOL STICK, TERMOKOL Z



chemius.net/USR54

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Use

Hotmelt adhesives for industrial bonding and for the general public. The adhesive that is applied in a molten state, the working temperature up to 210 °C. For application with rollers, nozzles, by spraying.

Uses advised against

No information

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier

MITOL, tovarna lepil, d.d., Sežana
Address: Partizanska c. 78 Sežana, Slovenia
Tel.: +386 5 73 12 300
Fax: +386 5 73 12 390
e-mail: lilijana.kocjan@mitol.si
Point of contact for safety info: Lilijana Kocjan Žorž

1.4. EMERGENCY TELEPHONE NUMBER

Emergency

112

Supplier

+386 5 73 12 300 (8:00-16:00)

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Reg. 1272/2008

According to the regulation, the chemical is not classified as dangerous.

2.2 LABEL ELEMENTS

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Pictograms not applicable according to Regulation 1272/2008.

2.2.2. Contains:

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2.2.3. Special provisions

Special hazards are not known or expected.

2.3. OTHER HAZARDS

No information



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description

Elastomers of different bases (ethylene vinyl acetate, polyolefins, metallocene, styrene isoprene, polybutene, etc.), various types of resins (hydrocarbon, rosin, tall oil, etc.), mineral fillers, and additives.

3.1. SUBSTANCES

For mixtures see 3.2.

3.2. MIXTURES

Chemical name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 [CLP]	REACH reg. number
vinyl acetate [D]	108-05-4 203-545-4 607-023-00-0	<0,1	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT SE 3; H335 Carc. 2; H351	-

Notes for substances:

D Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.

However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

General measures

In case of accident or if you feel unwell, seek medical advice. If possible, show the safety data sheet.

Inhalation

Remove patient to fresh air after inhalation of overheating or burning products. If symptoms persist seek medical attention.

Skin contact

Take off all contaminated clothing. Wash thoroughly with plenty of water and soap! On contact with hot product, cool burned area with cold water. Do not pull product from skin. If feeling unwell seek medical help.

Eye contact

Immediately flush eyes with running water, keeping eyelids open. If irritation persist, seek professional medical attention.

Ingestion

Usually it presents no special hazards. First aid is normally not required.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation

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Skin contact

Hot material may cause skin burns.

Eye contact

Mechanical irritation.

Hot material can cause burns.



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Ingestion

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4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

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SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

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5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

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5.3. ADVICE FOR FIREFIGHTERS

Protective actions

In case of fire do not breathe fumes/gases.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective clothing for fire-fighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137) .

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation.

6.1.2. For emergency responders

High risk of slipping due to leakage/spillage of product.

6.2. ENVIRONMENTAL PRECAUTIONS

If accidental entry into water or ground occurs, inform responsible authorities.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

6.3.1. For containment

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6.3.2. For cleaning up

Collect the product and recycle it for reuse. Collect in a suitable container and dispose according to regulations.

6.3.3. Other information

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6.4. REFERENCE TO OTHER SECTIONS

See also sections 8 and 13.



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SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Provide good ventilation and local exhaust in the area where hot product is used.

Measures to protect the environment

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7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

7.2.1. Technical measures and storage conditions

Store in original container, in a cool dry place at temperatures up to + 25 °C, away from heat sources.

7.2.2. Packaging materials

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7.2.3. Requirements for storage rooms and vessels

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7.2.4. Storage class

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7.2.5. Further information on storage conditions

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7.3. SPECIFIC END USE(S)

Recommendations

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Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

8.1.1. Occupational Exposure limit values

Chemical name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
Vinyl acetate (108-05-4)	5	17,6	10	35,2		

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.1.3. DNEL values

No information



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8.1.4. PNEC values

No information

8.2. EXPOSURE CONTROLS

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices-wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe fumes, vapors and smoke emitted from hot product.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in the area with increased concentration.

8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection. (EN 166)

Hand protection

Wear thermal insulating gloves when handling hot masses (EN 407).

Skin protection

Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

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8.2.3. Environmental exposure controls

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

-	Physical state:	solid
-	Colour:	according to specification
-	Odour:	slight, characteristic



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Important health, safety and environmental information

-	pH	(not applicable*)
-	Melting point	> 60 °C (ASTM E-28 For further information: see technical data sheet.)
-	Boiling point/boiling range	(not applicable)
-	Flashpoint	(not applicable)
-	Evaporation rate	(not applicable)
-	Ignition temperature	(not applicable)
-	Explosion limits (vol%)	(not applicable)
-	Vapour pressure	(not applicable*)
-	Vapour density	(not applicable)
-	Density	Density: 0,9 – 1,4 g/cm ³
-	Solubility	Water: Insoluble Organic solvent: Soluble
-	Partition coefficient n-octanol/water (log Kow)	No information
-	Auto-ignition temperature	(not applicable*)
-	Decomposition temperature	(Temperature resistance has not been tested. Under normal operating conditions the risk for degradation is low.)
-	Viscosity	kinematic: (Solid at room temperature. For more information: see technical data sheet.)
-	Explosive properties	Product does not include components with explosive properties.
-	Oxidising properties	Product does not contain components with oxidative properties.

9.2. OTHER INFORMATION

-	Remarks: * (in Section 9.1): not important because of the nature of the product. The product in solid form does not contain flammable components. Soluble in organic solvents (aromatic, chlorinated hydrocarbons, esters, acetone, etc.). Partition coefficient n-octanol / water (log Kow): not measured.
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SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

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10.2. CHEMICAL STABILITY

Product is stable under normal conditions according to handling and storage.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

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10.4. CONDITIONS TO AVOID

No special precautions required. Consider the directions for use and storage. Avoid high temperatures above 230 °C (short-term exposure) and above 210 °C (continuous exposure).

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents.



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10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products expected. In case of fire/explosion vapours dangerous for health are spread. Carbon dioxide; carbon monoxide.
Nitrogen oxides;

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1. Acute toxicity

No information

11.1.2. Skin corrosion/irritation, serious eye damage/irritation, aspiration hazard

Additional information

Vapours and gases of the product, generated at high temperature can have an irritant effect to the eyes and the breathing apparatus.

11.1.3. Respiratory or skin sensitisation

No information

11.1.4. Carcinogenicity, Mutagenicity, Reproductive toxicity

Carcinogenicity

No information

(Germ cell) mutagenicity

No information

Reproductive toxicity

No information

Summary of evaluation of the CMR properties

No information

11.1.5. STOT - single and repeated exposure

No information

SECTION 12. ECOLOGICAL INFORMATION

12.1. TOXICITY

12.1.1. Acute (short-term) toxicity

No information

12.1.2. Chronic (long-term) toxicity

No information

12.2. PERSISTENCE AND DEGRADABILITY

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information

12.2.2. Biodegradation

No information

12.3. BIOACCUMULATIVE POTENTIAL

12.3.1. Partition coefficient n-octanol/water (log Kow)

No information

12.3.2. Bioconcentration factor (BCF)

No information



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12.4. MOBILITY IN SOIL

12.4.1. Known or predicted distribution to environmental compartments

No information

12.4.2. Surface tension

No information

12.4.3. Adsorption/Desorption

No information

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

No evaluation.

12.6. OTHER ADVERSE EFFECTS

No information

12.7. ADDITIONAL INFORMATION

For product

Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

13.1.1. Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable governmental non-hazardous solid waste regulations. Dispose of in accordance with applicable waste disposal regulation

- Waste codes / waste designations according to LoW

08 04 10 - waste adhesives and sealants other than those mentioned in 080409

Packaging

Residues must be completely removed from the tank (eg. by pouring, scraping or draining to the state with no drops). Submit a completely emptied package to the person authorized for collection of packaging waste or to a waste collection center qualified for management of waste under the qualification number for packaging waste. Dispose of in accordance with applicable waste disposal regulation. Containers must be recycled in accordance with national legislation and environmental regulations.

- Waste codes / waste designations according to LoW

15 01 - packaging (including separately collected municipal packaging waste)

13.1.2. Waste treatment-relevant information

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13.1.3. Sewage disposal-relevant information

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13.1.4. Other disposal recommendations

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SECTION 14. TRANSPORT INFORMATION

14.1. UN NUMBER

not applicable

14.2. UN PROPER SHIPPING NAME

Not dangerous according to transport regulations.



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14.3. TRANSPORT HAZARD CLASS(ES)

not applicable

14.4. PACKING GROUP

not applicable

14.5. ENVIRONMENTAL HAZARDS

NO

14.6. SPECIAL PRECAUTIONS FOR USER

not applicable

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

not applicable

SECTION 15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

15.2. CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

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Key literature references and sources for data

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List of relevant H phrases

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer .



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Further information

Safety Data Sheet applies to products:

TERMOKOL 2000/05, 2000/15, 2000/25, 2000/35, 2000/45, 2003/05, 2003/15, 2003/25, 2003/35, 2003/45, 2004/05, 2004/15, 2004/35, 2004/45, 2005/15, 2006/15, 2007/05, 2007/15, 2008/05, 2008/25, 2008/35, 2008/45, 2009/05, 2009/15, 2009/25, 2009/35, 2009/45, 2010/05, 2010/15, 2010/35, 2010/45, 2011/05, 2011/15, 2012T, 2013/15, 2015/05, 2015/15, 2015/25, 2015/35, 2015/45, 2016/15, 2016/45, 2017/15, 2018/15, 2019/05, 2019/15, 2019/40, 2019/45, 2020/15, 2021/05, 2021/15, 2021/25, 2021/35, 2021/45, 2022/05, 2022/15, 2022/22, 2022/25, 2022/35, 2022/45, 2023/05, 2023/15, 2024/15, 2025/15, 2026/15, 2027/15, 2028/15, 2029/15, 2030/15, 2031/05, 2031/15, 2031/25, 2032/15, 2033/15, 2034/15, 2035/15, 2035/35, 2036/15, 2037/15, 2038/15, 2039/15, 2071/15, 2072/15, 2080/05, 2080/15, 2080/35, 2080/45, 2104, 2108, 2301, 2302, 2303, 2304, 2305, 2305/OL, 2306, 2308, 2308/1, 2313, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2326, 2327, 2328, 2329, 2331, 2333, 2336, 2337/1, 2338, 2340, 2341, 2344, 2345, 2360, 2401, 2404, 2410, 2410/05, 2411/05, 2412, 2413, 2413/05, 2414, 2416, 2417, 2418/05, 2419, 2420/05, 2425, 2600, 2602, 2607, 2612, 2613, 2614, 2615, 2617, 2618, 2619, 2620, 2622, 2623, 2624, 2625, 2626, 2628, 2629, 2630, 2635, 2640, 2700, 2900, 2901, 2905, 2920, 2921, 2925, 2930

TERMOKOL ULTRA 2042/15, 2050/15, 2051/15, 2053/15, 2054/15, 2110, 2370, 2371, 2375, 2380, 2415

TERMOKOL STICK 16, 29

TERMOKOL Z 42, 44

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.