

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



chemius.net/eGk5a

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

Relevant identified uses

Hotmelt adhesives for industrial bonding and for the general public. The adhesive that is applied in a molten state - the working temperature of the melt 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

Manufacturer

MITOL, tovarna lepil, d.o.o., Sežana
Address: Partizanska c. 78 Sežana, Slovenia
Phone: +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

112

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

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

According to the regulation, the product is not classified as hazardous.

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

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Contact with hot product may cause burns.

Under unfavorable conditions, water may penetrate into the packaging during transport and storage.

Contact of moist or wet product with hot melts can cause vapor formation, splashing and foaming.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description

Preparation made from a mixture of waxes, resins, synthetic polymers and additives.

3.1. SUBSTANCES

For mixtures see 3.2.

3.2. MIXTURES

The product does not contain dangerous substances or ingredients, which would need to be declared on the safety data sheet.

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

General notes

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

Following inhalation

Remove patient to fresh air after inhalation of gases of the overheated or burning products. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention. On contact with hot product, cool burned area with cold water. Do not pull solidified product off the skin.

Following eye contact

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

Following ingestion

In the event of swallowing larger quantities: Consult a physician.

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

Inhalation

Vapours, emitted by the heated material, may cause respiratory irritation.
Causes cough.
Headache.
Sore throat.

Skin contact

Hot material may cause skin burns.

Eye contact

Mechanical irritation.
Hot material can cause burns.
The working steams can irritate the eyes.
Redness, tearing, pain.
Blurred vision.

Ingestion

May cause nausea/vomiting and diarrhea.
May cause abdominal discomfort.

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

Product itself is not flammable. Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

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5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3. ADVICE FOR FIREFIGHTERS

Protective actions

In case of fire evacuate the area. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for firefighters

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

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

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

Hot product. Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Do not breathe vapour or mist.

6.1.2. For emergency responders

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

6.2. ENVIRONMENTAL PRECAUTIONS

Product is not classified as dangerous for environment. Do not allow product to reach water/drains/sewage systems or permeable soil.

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 of according to regulations. For molten product: Allow product to solidify and remove it by mechanical means.

6.3.3. Other information

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6.4. REFERENCE TO OTHER SECTIONS

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Take precautionary measures against static discharges.

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. Do not breathe vapours/mist. Do not breathe dust. Refer to instructions on label and regulations for safety and health at work. Refer to legal, protective and safety regulations.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep containers hermetically sealed. Store in original container, in a cool dry place at temperatures up to + 25 °C, away from heat sources. Keep away from food, drink and animal feeding stuffs. Keep in cool and well ventilated area. Keep away from moisture and water. Store between +5°C to 30°C. Keep away from heat. Take precautionary measures against static discharges.

7.2.2. Packaging materials

The original container of producer.

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

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		
Product		4			Respirable dust EH40/2005 UK	
Product		10			Inhalable dust EH40/2005 UK	
Product		2			Paraffin wax, fume: WEL (8h)	
Product				6	Paraffin wax, fume: WEL (15 min)	

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. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

8.1.3. DNEL/DMEL values

No information.

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 areas with increased concentration.

8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). When working with hot preparation use thermal insulating gloves (EN 407).

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Protective work clothes (EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994). Safety Shoes (BS EN ISO 20345:2011, BS EN ISO 20347:2012).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. At elevated concentrations of vapours/aerosols in the air wear a mask (EN 140) with filter A2-P2 (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.

Thermal hazards

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8.2.3. Environmental exposure controls

Technical measures to prevent exposure

Prevent exposure in the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

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

Important health, safety and environmental information

-	pH	not relevant*
-	Melting point/freezing point	> 60 °C (ASTM E-28 For further information: see technical data sheet.)
-	Initial boiling point/boiling range	Not relevant
-	Flash point	Not relevant
-	Evaporation rate	Not relevant
-	Flammability (solid, gas)	Not relevant
-	Explosion limits (vol%)	Not relevant
-	Vapour pressure	Not relevant
-	Vapour density	Not relevant
-	Density	Density: 0,9 – 1,4 g/cm ³
-	Solubility	Water: Insoluble Organic solvent: Soluble
-	Partition coefficient	No information.
-	Auto-ignition temperature	Not relevant
-	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 oxidising properties.
-	Particle characteristics	No information.

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

Stable under recommended transport or storage conditions.

10.2. CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

The product is stable under recommended storage and handling conditions.

10.4. CONDITIONS TO AVOID

Protect from moisture and water - keep in dry place. Avoid high temperatures above 230 °C (short-term exposure) and above 210 °C (continuous exposure).

10.5. INCOMPATIBLE MATERIALS

Water.
Strong acids.
Strong bases.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide. Other organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

(a) Acute toxicity

Additional information: The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

Additional information: The product is not classified as irritating to the skin.

(c) Serious eye damage/irritation

Additional information: The product is not classified as an irritant to the eyes. Vapours and gases of the product, generated at high temperature can have an irritant effect to the eyes and the breathing apparatus.

(d) Respiratory or skin sensitisation

Additional information: The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

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(h) STOT-single exposure

Additional information: STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

Additional information: STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

Additional information: Aspiration hazard: Not classified.

11.2. INFORMATION ON OTHER HAZARDS

11.2.1. Endocrine disrupting properties

No information.

11.2.2. Other information

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

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. ENDOCRINE DISRUPTING PROPERTIES

No information.

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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 waste regulations. Dispose the product to an authorised collector/remover of waste/company performing waste recovery. 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

Dispose of completely emptied packaging to the authorized waste collector or hand over to collection centers of waste management companies under the classification numbers for waste packaging. Dispose of in accordance with applicable waste disposal regulation.

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 OR ID NUMBER

Not applicable.

14.2. UN PROPER SHIPPING NAME

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

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. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable.

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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) 2020/878)
- 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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Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre

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Kow - octanol-water partition coefficient
LC₅₀ - Lethal Concentration to 50 % of a test population
LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

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Further information

Safety Data Sheet applies to products:

TERMOKOL 2000/05, 2000/15, 2000/25, 2000/35, 2000/45, 2002/15, 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, 2010/15, 2010/35, 2010/45, 2011/05, 2011/15, 2012T, 2013/15, 2015/00, 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, 2023/15, 2024/15, 2025/05, 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, 2071/05, 2071/15, 2072/05, 2072/15, 2073/15, 2075/15, 2080/15, 2080/35, 2080/45, 2090, 2091/15, 2092/15, 2093/15, 2094/15, 2095/15, 2099/15, 2104, 2108, 2301, 2302, 2303, 2304, 2305, 2305/OL, 2306, 2308, 2308/1, 2313, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2321/1, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2331, 2333, 2334, 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, 2421, 2425, 2600, 2602, 2607, 2611, 2612, 2613, 2614, 2614/1, 2615, 2617, 2618, 2619, 2620, 2622, 2622 A, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2634, 2635, 2636, 2640, 2660, 2700, 2702, 2703, 2900, 2901, 2905, 2920, 2921, 2925, 2927, 2930
TERMOKOL ULTRA 2050/15, 2360, 2365, 2370, 2371, 2375, 2380, 2381, 2385, 2415
TERMOKOL STICK 11, 15, 16, 29

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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.