

ThermaGlue

Safety Data Sheet

Section 1: Identification of the mixture and of the company

1.1. Product identifier

ThermaGlue

1.2. Relevant identified uses of the mixture and uses advised against

Adhesive for professional users only.

1.3. Details of the supplier of the safety data sheet

Thermaflex Izolacji sp. z o.o.

58-130 Żarów

ul. Przemysłowa 6, Poland

tel. +48 74 85-89-666

fax. +48 74 85-89-667

1.4. Emergency phone number

Call Thermaflex Izolacji Sp. z o.o.

+48 74 85 89 666 (line available 8 a.m. – 4 p.m.)

Call SABA Dinxperlo BV

+31 315 65 89 99

Section 2: Hazards identification

2.1. Classification of the mixture

| | |
|-------------------|---|
| Flam. Liq. 2 | H225 Highly flammable liquid and vapour. |
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| STOT SE 3 | H336 May cause drowsiness or dizziness. |
| Aquatic Chronic 2 | H411 Toxic to aquatic life with long lasting effects. |

2.2. Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS02 GHS07 GHS09

Disclaimer

All recommendations and information provided on this data sheet are based on our knowledge and experience. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied or that any use of the products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.



Signal word: Danger

Hazard-determining components of labelling:

Hydrocarbons, C6, iso-alkanes, <5% n-hexane, cyclohexane, ethyl acetate, acetone

Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapour/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves

P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

Additional information:

Contains Rosin. May produce an allergic reaction. Restricted to professional users.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3: Composition/ information on ingredients

3.1. Substances

Not applicable. The product is not a substance.

3.2. Mixture

Description: Mixture of components as listed below. The percentage composition adds up to a total of 100% with non-hazardous ingredients.



| Dangerous components: | | |
|--|---|----------------|
| | hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | ≥25- <30% |
| CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119484651-34-xxxx | cylloheksane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332, ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 | ≥10- <25% |
| CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx | ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | ≥10- <25% |
| CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx | acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | <5,5% |
| CAS: 51839-25-9 EINECS: 257-467-0 Reg.nr.: 01-2119474697-20-xxxx | basic zinc carbonate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411 | <0,2% |
| CAS: 8050-09-7 EINECS: 232-475-7 Reg.nr.: 01-2119480418-32-xxxx | Rosin ⚠ Skin Sens. 1, H317 | ≥0,1- <0,2% |

Additional information:

Hydrocarbons, C6-, isoalkanes, <5% n-hexane is a mixture of: hexane (mixture of isomers), cyclopentane, n-hexane and pentane. For the wording of the listed hazard phrases refer to section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General information:

Take affected persons out of danger area and lay down.

Remove any clothing soiled by the product.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting. If symptoms persist consult doctor.

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

No further relevant information available.

4.3. Indication of any immediate attention and special treatment needed

No further relevant information available.



Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCl)

Carbon monoxide and carbon dioxide

Metal oxide

5.3. Advice for firefighters

Protective equipment:

Wear full protective suit.

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep people at a distance and stay on the windward side.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

6.2. Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

7.1. Precautions for safe handling

The usual precautionary measures are to be adhered to when handling chemicals.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Protect from frost.

Protect from heat and direct sunlight.

Information about storage in one common storage facility:



Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well-sealed receptacles.

7.3. Specific end use(s)

No further relevant information available.

Section 8: Exposure controls/ personal protection

8.1. Control parameters

| | | |
|--|--|---|
| · Ingredients with limit values that require monitoring at the workplace: | | |
| 110-82-7 cyclohexane | | |
| WEL | Short-term value: 1050 mg/m ³ , 300 ppm Long-term value: 350 mg/m ³ , 100 ppm | |
| 141-78-6 ethyl acetate | | |
| WEL | Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm | |
| 67-64-1 acetone | | |
| WEL | Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm | |
| · DNELs | | |
| hydrocarbons, C6, isoalkanes, <5% n-hexane | | |
| Oral | DNEL Consumer | 1,301 mg/kg BW (Chronic effects; Systemic) |
| Dermal | DNEL Consumer | 1,377 mg/kg BW (Chronic effects; Systemic) |
| | DNEL Worker | 13,964 mg/kg BW (Chronic effects; Systemic) |
| Inhalative | DNEL Consumer | 1,131 mg/m3 (Chronic effects; Systemic) |
| | DNEL Worker | 5,306 mg/m3 (Chronic effects; Systemic) |
| 110-82-7 cyclohexane | | |
| Dermal | DNEL Worker | 2,016 mg/kg BW (Chronic effects; Systemic) |
| Inhalative | DNEL Worker | 700 mg/m3 (Acute effects; Local) |
| | | 700 mg/m3 (Acute effects; Systemic) |
| | | 700 mg/m3 (Chronic effects; Local) |
| | | 700 mg/m3 (Chronic effects; Systemic) |
| | | 700 mg/m3 (Chronic effects; Systemic) |
| 141-78-6 ethyl acetate | | |
| Oral | DNEL Consumer | 4.5 mg/kg BW (Chronic effects; Systemic) |
| Dermal | DNEL Consumer | 37 mg/kg BW (Chronic effects; Systemic) |
| | DNEL Worker | 63 mg/kg BW (Chronic effects; Systemic) |
| | DNEL Worker | 63 mg/kg BW (Chronic effects; Systemic) |
| Inhalative | DNEL Consumer | 734 mg/m3 (Acute effects; Local) |
| | | 734 mg/m3 (Acute effects; Systemic) |
| | | 367 mg/m3 (Chronic effects; Local) |
| | | 367 mg/m3 (Chronic effects; Systemic) |
| | | 367 mg/m3 (Chronic effects; Systemic) |
| | | 1,468 mg/m3 (Acute effects; Local) |
| | | 1,468 mg/m3 (Acute effects; Systemic) |
| | | 734 mg/m3 (Chronic effects; Local) |
| | | 34 mg/m3 (Chronic effects; Systemic) |
| | | 34 mg/m3 (Chronic effects; Systemic) |



| 67-64-1 acetone | | |
|----------------------------|---------------|--|
| Oral | DNEL Consumer | 62 mg/kg BW (Chronic effects; Systemic) |
| Dermal | DNEL Consumer | 62 mg/kg BW (Chronic effects; Systemic) |
| | DNEL Worker | 186 mg/kg BW (Chronic effects; Systemic) |
| Inhalative | DNEL Consumer | 200 mg/m3 (Chronic effects; Systemic) |
| | DNEL Worker | 2,420 mg/m3 (Acute effects; Local) |
| | | 1,210 mg/m3 (Acute effects; Systemic) |
| · PNECs | | |
| 110-82-7 cyclohexane | | |
| PNEC Aquatic ecosystem | | 0.207 mg/l (Fresh water) |
| | | 0.207 mg/l (Marine water) |
| PNEC Aquatic ecosystem | | 3.267 mg/kg (Fresh water sediment) |
| | | 3.267 mg/kg (Marine water sediment) |
| PNEC Terrestrial ecosystem | | 2.99 mg/kg (Soil) |
| 141-78-6 ethyl acetate | | |
| PNEC Aquatic ecosystem | | 0.26 mg/l (Fresh water) |
| | | 0.026 mg/l (Marine water) |
| | | 650 mg/l (Sewage treatment) |
| PNEC Aquatic ecosystem | | 0.34 mg/kg (Fresh water sediment) |
| | | 0.034 mg/kg (Marine water sediment) |
| 67-64-1 acetone | | |
| PNEC Aquatic ecosystem | | 10.6 mg/l (Fresh water) |
| | | 21.5 mg/l (Intermittent release) |
| | | 1.06 mg/l (Marine water) |
| | | 100 mg/l (Sewage treatment) |
| PNEC Aquatic ecosystem | | 30.4 mg/kg (Fresh water sediment) |
| | | 3.04 mg/kg (Marine water sediment) |
| PNEC Terrestrial ecosystem | | 29.5 mg/kg (Soil) |

· **Additional information:** The lists valid during the making were used as basis.

8.2. Exposure controls

Appropriate engineering controls No further data, see item 7

Individual protection measure, such as personal protective equipment.

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hand before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin

Remove any clothing soiled by the product.

Respiratory protection:

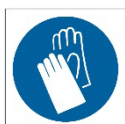
Use suitable respiratory protective device in case of insufficient ventilation.

Avoid breathing mist/vapour/spray.

Recommended filter: filter AX

Hand protection

Protective gloves





The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves not only depend on the material, but also on further

marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Neoprene gloves

Eye protection:

Safety glasses

Body protection:

Protective work clothing

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|----------------------------------|
| Physical state | Fluid |
| Colour | Various colours |
| Odour: | Characteristic |
| Odour threshold: | No data available |
| Melting point/freezing point | No data available |
| Boiling point or initial boiling point and boiling range | >48 °C |
| Flammability | Highly flammable |
| Lower and upper explosion limit Lower : Upper : | 1 Vol % 11,5 Vol % |
| Flash point | -17 °C |
| Ignition temperature | No data available |
| pH | Not applicable |
| Viscosity Dynamit at 20 °C | 250 mPas |
| Solubility Water: | Not miscible or difficult to mix |



| | |
|---|-----------------------|
| Partition coefficient n-octanol/water (log value) | No data available |
| Vapour pressure at 20 ° C | 250 hPa |
| Density and/or relative density | |
| Density at 20 ° C | 0,8 g/cm ³ |
| Vapour density | No data available |

9.2. Other information

| | |
|---|--|
| Appearance Form | Fluid |
| Important information on protection of health and environment and on safety | |
| Auto-ignition temperature | Product is not selfigniting |
| Explosive properties | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| Solvent separation test | |
| Solvent content Organic solvents | 80% |
| Water VOC (EC) | 0,4 % 664,1 g/l 80,0 % |
| Solids content Change in condition Softening point/range Oxidising properties Evaporation rate | 19,6 % No data available No data available |
| Information with regard to physical hazards classes | |
| <ul style="list-style-type: none">• Explosives• Flammable gases• Aerosols• Oxidising gases• Gases under pressure• Flammable liquids• Flammable solids• Self-reactive substances and mixtures• Pyrophoric liquids• Pyrophoric solids• Self-heating substances and mixtures• Substances and mixtures which emit flammable gases in contact with water• Oxidising liquids | Void Void Void Void Void Highly flammable liquid and vapour Void Void Void Void Void Void Void |



| | |
|---|--|
| <ul style="list-style-type: none">• Oxidising solids• Organic Peroxides• Corrosive to metals• Densensitised explosives• Additional information | Void Void Void Void The physical data presented above are typical values and should not be construed as a specification. |
|---|--|

Section 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided.

No decomposition if used according to specifications.

10.3. Possibility of hazardous reaction

Decomposes with water, acids and alkalis.

Violent reactions with strong alkalis and oxidizing agents.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Hydrogen chloride (HCl)

Carbon monoxide (CO) and carbon dioxide (CO₂).

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

| | | |
|--|----------|---------------------|
| · LD/LC50 values relevant for classification: | | |
| ATE (Acute Toxicity Estimates) | | |
| Oral | LD50 | 5,663 mg/kg (mouse) |
| Inhalative | LC50/4 h | 61 mg/l |



| | | | |
|--|--------------------|---|------------------|
| hydrocarbons, C6, isoalkanes, <5% n-hexane | | | |
| Oral | LD50 | >5,000 mg/kg (rat) | |
| Dermal | LD50 | >3,000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | >20 mg/l (rat) | |
| 110-82-7 cyclohexane | | | |
| Oral | LD50 | 1,300 mg/kg (mouse) >5,000 mg/kg (rat) | |
| Dermal | LD50 | >2,000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | 14 mg/l (rat) | |
| 141-78-6 ethyl acetate | | | |
| Oral | LD50 | 4,100 mg/kg (mouse) 10,170 mg/kg (rat) 4,935 mg/kg (rabbit) | |
| Dermal | LD50 | >20,000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | 31 mg/l (mouse) >50 mg/l (rat) | |
| 67-64-1 acetone | | | |
| Oral | LD50 | >3,000 mg/kg (mouse) >5,000 mg/kg (rat) | |
| Dermal | LD50 | >5,000 mg/kg (rat) >15,000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h | 76 mg/l (rat) | |
| <ul style="list-style-type: none">· Skin corrosion/irritation Causes skin irritation.· Serious eye damage/irritation Causes serious eye irritation.· Respiratory or skin sensitisation Contains Rosin. May produce an allergic reaction.· STOT-single exposure May cause drowsiness or dizziness.· Information on other hazards | | | |
| <ul style="list-style-type: none">· Endocrine disrupting properties | | | |
| 98-54-4 | 4-tert-butylphenol | | List I, II 0,03% |

11.2. Information on hazard classes

Endocrine disrupting properties: No data available

Other information: No data available

Section 12: Ecological information

12.1. Toxicity

| | |
|-------------------------------|-----------------------|
| Aquatic toxicity: | |
| 110-82-7 cyclohexane | |
| EC50 (48h) | 0.9 mg/l (daphnia) |
| 141-78-6 ethyl acetate | |
| EC50 | > 164 mg/kg (daphnia) |
| 67-64-1 acetone | |
| EC50 | 39 mg/kg (daphnia) |

12.2. Persistence and degradability

No data available.



12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6. Endocrine disrupting properties

See section 11.

12.7. Additional information

Remark: Toxic for fish.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow products to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leas into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

| <i>European waste catalogue</i> | |
|---------------------------------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations



Section 14: Transport information

| | |
|---|---|
| 14.1. UN number or ID number ADR/RID/ADN, IMDG, IATA | UNI1133 |
| 14.2. UN proper shipping name ADR/RID/ADN | 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS,, special provision 640D |
| IMDG | ADHESIVES (HEXANES, CYCLOHEXANE), MARINE POLLUTANT |
| IATA | ADHESIVES |

| | |
|---|--------------------------|
| 14.3. Transport hazard class(es) ADR/RID/ADN | |
|   | |
| Class | 3 (F1) Flammable liquids |
| Label | 3 |
| <hr/> | |
| IMDG | |
|   | |
| Class | 3 Flammable liquids |
| Label | 3 |
| <hr/> | |
| IATA | |
|  | |
| Class | 3 Flammable liquids |
| Label | 3 |



| | |
|--|---|
| 14.4. Packing group ADR/RID/ADN, IMDG, IATA | II |
| 14.5. Environmental hazards | Product contains environmentally hazardous substances : cyclohexane, hydrocarbons, Naphta (petroleum), hydrotreated light |
| Marine pollutant: | Symbol (fish and tree) |
| Special marking (ADR/RID/ADN): | Symbol (fish and tree) |
| 14.6. Special precautions for use | <u>Warning:</u> Flammable liquids |
| Hazard identification number (Kemler code): | 33 |
| EMS Number: | F-E,S-D |
| Stowage Category | B |

| | | |
|---|--|----------------|
| 14.7 Maritime transport in bulk according to IMO | | Not applicable |
| Transport/Additional information: | | |
| ADR/RID/ADN | | |
| Limited quantities (LQ) | 5L | |
| Excepted quantities (EQ) | Code: E2 | |
| | Maximum net quantity per inner packaging: 30 ml | |
| | Maximum net quantity per outer packaging: 500 ml | |
| Transport category | 2 | |
| Tunnel restriction code: | D/E | |
| IMDG | | |
| Limited quantities (LQ) | 5L | |
| Excepted quantities (EQ) | Code: E2 | |
| | Maximum net quantity per inner packaging: 30 ml | |
| | Maximum net quantity per outer packaging: 500 ml | |
| UN "Model Regulation": | UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS | |



15.1. Registration status

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tons) for the application of lower-tier requirements

200 t

Qualifying quantity (tons) for the application of upper-tier requirements

500 t

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

For additional product information contact Thermaflex Izolacji Sp. z o.o.

The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

Sources of key data used to compile the data sheet:

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National threshold limit values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case. The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.