Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)

2015/830 - Europe

Date of issue/ Date of : 9/10/2021 Date of previous issue : 10/14/2016 revision



SAFETY DATA SHEET

TEMALAC AB 70

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : TEMALAC AB 70
Product description : Alkyd topcoat.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet

Manufacturer or Distributor

Tikkurila Oyj P.O. Box 53 FI-01301 VANTAA FINLAND

Telephone +358 20 191 2000

e-mail address of person : Tikkurila Oyj, responsible for this SDS : Product Safety,

e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number : 112 (24h)

Supplier or Manufacturer

Telephone number : Mkkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Mam. Liq. 3, H226 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Hazard pictograms :





Signal word : Warning

Hazard statements: H226 - Flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

Precautionary statements

General : Not applicable.

Version : 2 1/10

Date of issue/Date of revision 10.09.2021 Date of previous issue 14.10.2016. TEMALAC AB 70

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 - Avoid breathing mist/vapors/spray.

P284 - In case of inadequate ventilation wear respiratory protection.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : Mydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Supplemental label : Contains Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

Wear protective gloves.

Marning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| | | | <u>Classification</u> | |
|--|---|-----------|---|-------|
| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Notes |
| ydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | REACH #: 01-2119463258-33 EC: 919-857-5 CAS: - | ≥25 - ≤50 | Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066 | H,P |
| Reaction mass of ethylbenzene and xylene | REACH #: 01-2119488216-32 EC: 905-588-0 CAS: - | <10 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 | С |
| aluminium powder (stabilised) | REACH #: 01-2119529243-45 EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1 | ≤5 | Flam. Sol. 1, H228 | Т |
| 2-ethylhexanoic acid, zirconium salt | REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9 | ≤0.3 | Repr. 2, H361d | - |
| Fatty acids, tall-oil, compds. with oleylamine | REACH #: 01-2119974148-28 EC: 288-315-1 CAS: 85711-55-3 | <0.1 | Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 See Section 16 for the full text of the H statements declared above. | - |
| | | | | |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

Version : 2 2/10

SECTION 4: First aid measures

4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Show this

safety data sheet or label to the doctor if possible.

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of

lukewarm water, keeping eyelids open. Continue to rinse for at least 15 minutes.

Get medical attention if symptoms occur.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel. Get medical attention.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is Ingestion

conscious) and obtain immediate medical attention. Remove to fresh air and keep

at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.

See Section 11 for more detailed information on health effects and symptoms.

contains:

Fatty acids, tall-oil, compds. with oleylamine

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO2, powders or water spray/mist.

Unsuitable extinguishing media

: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Flammable liquid and vapor. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products

: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters

Special protective actions for fire-fighters

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Version : 2

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- : Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.

TEMALAC AB 70

- **6.2 Environmental precautions**
- : Do not allow to enter drains, water courses or soil.
- 6.3 Methods and materials for containment and cleaning up
- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.
- 6.4 Reference to other sections
- : See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and

Risk of self-ignition! Materials such as cleaning rags and paper wipes, sanding dust and overspray containing the product, may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be placed in a metal container filled with water and sealed or dried preferably outdoors or incinerated immediately. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

smoking should be prohibited in areas where this material is handled and stored.

Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

7.3 Specific end use(s) : None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Version : 2 4/10

| Date of issue/Date of revision | 10.09.2021 | Date of previous issue | 14.10.2016. | TEMALAC AB 70 |
|--------------------------------|------------|------------------------|-------------|---------------|

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| | EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 221 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m³ 15 minutes. |

Additional information

Ethylbenzene

EU OEL (Europe, 10/2019). Absorbed through skin.

TWA: 100 ppm 8 hours. TWA: 442 mg/m³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m³ 15 minutes.

Please check your local legislation for national OEL value for ethylbenzene.

protective equipment.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn (see Personal protection). Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection

: Use safety eyewear designed to protect against splash of liquids (EN166).

Hand protection

: Wear protective gloves. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Recommended glove material (EN374):

> 8 hours (breakthrough time): nitrile rubber, laminated foil

Skin protection

: Wear suitable protective clothing. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of

high-temperature-resistant synthetic fibers.

Respiratory protection

: If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use respirators with combination filter A/P3 (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Color : Coloured Odor : Strong.

Odor threshold Not relevant for the hazard assessment of the product.

Version : 2

Date of issue/Date of revision 10.09.2021 Date of previous issue 14.10.2016. TEMALAC AB 70

рΗ : Not relevant for the hazard assessment of the product.

<-15°C (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics) Melting point/freezing point

Initial boiling point and 150 to 200°C (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%

boiling range aromatics)

Flash point 36 °C (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Evaporation rate Not relevant due to the nature of the product.

Flammability (solid, gas) Not applicable. Product is a liquid.

Upper/lower flammability or wer: 0.6% (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics) explosive limits

Upper: 7% (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%

aromatics)

Vapor pressure 0.3 kPa [room temperature] (hydrocarbons, C9-C11, n-alkanes, isoalkanes,

cyclics, <2% aromatics)

Vapor density : >3 (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Density 1.1 to 1.2 g/cm³ : insoluble in water. Solubility(ies) Partition coefficient: n-octanol/: Not applicable.

Auto-ignition temperature

water

: 250°C (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Decomposition temperature : Not relevant for the hazard assessment of the product.

Viscosity Kinematic (40°C): >20.5 mm²/s

> >30 s [ISO 3mm cup] >60 s [ISO 6mm cup]

: No explosive ingredients present. **Explosive properties** : No oxidizing ingredients present. Oxidizing properties

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

10.1 Reactivity

No additional information.

SECTION 10: Stability and reactivity

: Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability

10.3 Possibility of : May present an explosion hazard when material is suspended in air in confined hazardous reactions areas or equipment and subjected to spark, heat or flame.

10.4 Conditions to avoid : Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents strong acids strong alkalis

: See Section 10.5.

10.6 Hazardous : When exposed to high temperatures, hazardous decomposition products may be decomposition products produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

Version : 2 6/10

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------------------|---------|------------|----------|
| Reaction mass of ethylbenzene and xylene | LC50 Inhalation Vapor | Rat | 11 mg/l | 4 hours |
| | LD50 Dermal | Rat | 1100 mg/kg | - |

Not classified.

Irritation/Corrosion

Not classified.

Sensitization

Not classified.

The product contains sensitizing substances mentioned in sections 2 and 3.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

Not classified.

Aspiration hazard

Not classified.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product.

Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity

: No specific data.

Not available.

12.2 Persistence and degradability

: No specific data.

12.3 Bioaccumulative potential

Version : 2 7/10

| Product/ingredient name | LogP _{ow} | Bioconcentration factor [BCF] | Potential |
|---|--------------------|-------------------------------|-----------|
| 2 ethylhexanoic acid, zirconium salt | - | 2.96 | low |
| Reaction mass of ethylbenzene and xylene | 3.12 | 8.1 to 25.9 | low |

10.09.2021 Date of previous issue

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

Date of issue/Date of revision

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

14.10.2016.

TEMALAC AB 70

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal

: Empty packaging should be recycled or disposed of in accordance with national regulations.

Special precautions

: **Risk of self-ignition!** Materials such as cleaning rags and paper wipes, sanding dust and overspray containing the product, may spontaneously self-ignite some hours later. To avoid the risks of fires, waste like this should be placed in a metal container filled with water and sealed before disposal, or dried preferably outdoors or incinerated immediately.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|---------------------------------|---------|--------|--------|
| 14.1 UN number | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III |
| | | | |

Version : 2 8/10

Date of issue/Date of revision 10.09.2021 Date of previous issue 14.10.2016. TEMALAC AB 70 14.5 No. No. No. **Environmental**

Additional information

ADR/RID

hazards

: Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code (D/E)

IMDG

: Emergency schedules F-E,S-E

Viscous liquid exception This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.3.2.5.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

Europe inventory : At least one component is not listed.

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

: Visted **Industrial emissions**

(integrated pollution prevention and control) -

Water

Persistent Organic Pollutants

Not listed.

VOC Directive : This product is in scope of Directive 2004/42/CE.

15.2 Chemical Safety

Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Justification

Mam. Liq. 3, H226 On basis of test data **STOT SE 3, H336** Calculation method

Version : 2 9/10

| Date of issue/Date of revision | 10.09.2021 Date of previous is | ssue 14.10.2016. TEMALAC AB 70 |
|---|--|--|
| Full text of abbreviated H statements | H335 May cause respir H336 May cause drows H361d Suspected of dar H373 May cause dama H304 May be fatal if sw | ct with skin. d. eye damage. eye irritation. ation. lergic skin reaction. |
| Full text of classifications [CLP/GHS] | : Acute Tox. 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Flam. Sol. 1 Repr. 2 Skin Irrit. 2 Skin Sens. 1A STOT RE 2 | ACUTE TOXICITY - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 FLAMMABLE SOLIDS - Category 1 TOXIC TO REPRODUCTION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 |
| Date of issue/ Date of revision | : 9/10/2021 | , , , , , , , , , , , , , , , , , , , |
| Date of previous issue | : 10/14/2016 : 2 | |

Version : 2

Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Version : 2 10/10