Conforms to Regulation ( 2020/878 - Europe	EC) No. 1907/2006 (RE	ACH), Annex II, as amended by Commissio	n Regulation (EU)
Date of issue/ Date of revision	: 2/9/2023	Date of previous issue	: 7/26/2022

# TIKKURILA

SAFETY DATA SHEET

TEMALAC ML 90 TAL

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

**1.1 Product identifier** 

Product name : TEMALAC ML 90 TAL

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 DistributorTikkurila OyjP.O. Box 53FI-01301 VANTAAFINLANDTelephone +358 20 191 2000e-mail address of personresponsible for this SDS: Tikkurila Oyj,Product Safety,e-mail: productsafety@tikkurila.com

#### 1.4 Emergency telephone number

Telephone number : 112 (24h)

Supplier or Manufacturer

Telephone number: Tikkurila 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]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412

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

#### 2.2 Label elements

Hazard pictograms



Signal word

Date of issue/Date of revision		09.02.2023 Date of previous issue	26.07.2022.	TEMALAC ML 90 TAL
Hazard statements	:	H226 - Flammable liquid and vap H319 - Causes serious eye irritat H315 - Causes skin irritation. H335 - May cause respiratory irri H373 - May cause damage to org H412 - Harmful to aquatic life wit	ion. tation. gans through prole	
Precautionary statements				
General	:	Not applicable.		
Prevention	:	<ul> <li>P210 - Keep away from heat, hot sources. No smoking.</li> <li>P261 - Avoid breathing mist/vapor P280 - Wear protective gloves.</li> <li>P284 - In case of inadequate ver P273 - Avoid release to the envir</li> </ul>	ors/spray. Itilation wear resp	
Response	:	P305 + P351 + P338 - IF IN EYE Remove contact lenses, if preser		
Storage	:	Not applicable.		
Disposal	:	Not applicable.		
Hazardous ingredients	:	Reaction mass of ethylbenzene a	and xylene	
Supplemental label elements	:	Contains Fatty acids, tall-oil, com reaction.	pds. with oleylam	ine. May produce an allergic
		Warning! Hazardous respirable of breathe spray or mist.	lroplets may be fo	ormed when sprayed. Do not

#### 2.3 Other hazards

: None known.

Other hazards which do not result in classification

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture			
			<b>Classification</b>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
Reaction mass of ethylbenzene and xylene	REACH #: 01-2119488216-32 EC: 905-588-0 CAS: -	≥25 - ≤50	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
hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	H,P
propylidynetrimethanol	EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-
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.	

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

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.

09.02.2023 Date of previous issue

TEMALAC ML 90 TAL

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.

26.07.2022.

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

### **SECTION 4: First aid measures**

4.1 Description of first aid measures		
General	<ul> <li>In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.</li> </ul>	
Eye contact	<ul> <li>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.</li> </ul>	
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>	
Ingestion	: If accidentally swallowed rinse the mouth with plenty of water (only if the person is 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 damage to organs through prolonged or repeated exposure.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Inhalation of vapours may cause dizziness, headache and nausea.

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

#### 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, CO <sub>2</sub> , 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. This material is hazardous to aquatic organisms.

5		Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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.

09.02.2023 Date of previous issue

26.07.2022. TEMALAC ML 90 TAL

# **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 contact with skin and eyes. See Section 8 for information on appropriate personal protective equipment.
6.2 Environmental precautions	:	Hazardous to aquatic environment. 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 smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product. Avoid release to the environment.
	<b>Risk of self-ignition!</b> 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.
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** 

TEMALAC ML 90 TAL

26.07.2022.

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/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes.

Additional information **Ethylbenzene** 

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

TWA: 100 ppm 8 hours.

TWA: 442 mg/m<sup>3</sup> 8 hours.

STEL: 200 ppm 15 minutes.

STEL: 884 mg/m<sup>3</sup> 15 minutes.

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

**Recommended monitoring procedures** : 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 protective equipment.

#### **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	<ul> <li>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.</li> <li>Recommended glove material (EN374):</li> <li>&lt; 1 hour (breakthrough time): nitrile rubber</li> <li>&gt; 8 hours (breakthrough time): fluor rubber, laminated foil Not recommended: PVC or natural rubber (latex) gloves</li> </ul>
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.
Environmental exposure controls	<ul> <li>For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.</li> </ul>

# **SECTION 9: Physical and chemical properties**

-				
9.1 Information on basic physical and chemical properties				
Appearance				
Physical state	:	Liquid.		
Color	:	White.		
Odor	:	Strong.		
Odor threshold	:	Not relevant for the hazard assessment of the product.		
рН	:	Not relevant for the hazard assessment of the product.		
Melting point/freezing point	:	-94.96°C (xylene)		
Initial boiling point and boiling range	:	136.16°C (xylene)		
Flash point	:	25 °C (xylene)		
Evaporation rate	:	0.77 (butyl acetate = 1) (xylene)		
Flammability (solid, gas)	:	Not applicable. Product is a liquid.		
Upper/lower flammability or explosive limits	:	Lower: 0.8% (xylene) Upper: 6.7% (xylene)		
Vapor pressure	:	0.89 kPa [room temperature] (xylene)		
Vapor density	:	3.7 (xylene)		
Density	:	1.15 g/cm³		
Solubility(ies)		insoluble in water.		
Partition coefficient: n-octanol/ water	:	Not applicable.		
Auto-ignition temperature	:	432°C (xylene)		
Decomposition temperature	:	Not relevant for the hazard assessment of the product.		
Viscosity	:	Kinematic (40°C): >20.5 mm²/s >60 s [ISO 6mm cup]		
Explosive properties	:	No explosive ingredients present.		
Oxidizing properties	:	No oxidizing ingredients present.		
Particle characteristics				
Median particle size		Not applicable.		
		Not applicable.		

9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	See Section 10.5.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	May present an explosion hazard when material is suspended in air in confined 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
10.6 Hazardous decomposition products	:	When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

26.07.2022.

# **SECTION 11: Toxicological information**

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

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

Causes skin irritation. Causes serious eye irritation.

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 respiratory irritation.

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not applicable.

#### 11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

Ecological testing has not been conducted on this product. The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008. Harmful to aquatic life with long lasting effects.

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

#### 12.1 Toxicity

Date of issue/Date of revision	09.02.2023 Date of previous issue	26.07.2022.	TEMALAC ML 90 TAL		
					•
Product/ingredient name	Result	Species		Exposure	
ydrocarbons, C9, aromatics	LC50 1 mg/l	Fish		96 hours	

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ydrocarbons, C9, aromatics	-	78 % - 28 c	lays	-		-
Product/ingredient name	Aquatic half-life	I	Photolysis		Biodeg	radability
₱atty acids, tall-oil, compds. with oleylamine	-		-		Readily	,
hydrocarbons, C9, aromatics	-		-		Readily	

# 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
propylidynetrimethanol	-0.47	<1	low
Reaction mass of ethylbenzene and xylene	3.12	8.1 to 25.9	low

#### 12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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 Endocrine disrupting** : Not applicable. **properties**

**12.7 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.

#### 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			

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	:	None.

26.07.2022.

# **SECTION 14: Transport information**

		ADR/RID	IMDG	ΙΑΤΑ
	14.1 UN number or ID 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	Ш	111	
	14.5 Environmental hazards	No.	No.	No.
		-		quid is not subject to regulation in
	Y	Emergency schedules Fiscous liquid exceptio backagings up to 450 L a	<u>n</u> This class 3 viscous liq	quid is not subject to regulation in
<b>14.6 Special precautions for user</b> : <b>Transport within user's premises:</b> always transport in closed containers upright and secure. Ensure that persons transporting the product know wh the event of an accident or spillage.				
14.7 Maritin bulk accord instruments	ing to IMO	Not available.		

# **SECTION 15: Regulatory information**

15.1 Safety, health and en	vironmental 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.		
Persistent Organic Poll Not listed.	lutants		
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			

## other information

Indicates information that has changed from previously issued version.				
Abbreviations and acronyms	<ul> <li>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</li> </ul>			
	Theo - Trediced no Ellect Concentration			

09.02.2023 Date of previous issue 26.07.2022.

TEMALAC ML 90 TAL

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]

Procedure used to derive the	e classification according to	0 Regulation (EC) NO. 1272/2000 [CLP/GHS]
Classif	fication	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H335 May cause resp H336 May cause drov H361fd Suspected of d H373 May cause dam H304 May be fatal if s H411 Toxic to aquatio H412 Harmful to aqua	act with skin. ed. s eye damage. s eye irritation.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 Skin Sens. 1A STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 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	: 2/9/2023	
Date of previous issue	: 7/26/2022	
Version	: 7	
Notice to seed as		

#### Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 878/2020 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.