Conforms to Regulation (2015/830 - Europe	EC) No. 1907/2006 (REACH	I), Annex II, as amended by Commissio	n Regulation (EU)
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SAFETY DATA SHEET

TEMADUR SC-M 80

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

1.1 Product identifier

Product name

TIKKURIL

: TEMADUR SC-M 80

Product description

: A two-component polyurethane paint.

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]

✓am. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336

Aquatic Chronic 2, H411

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

2.2 Label elements

Hazard pictograms



Signal word

: Warning

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Hazard statements	: H226 - Flammable liquid and vapor. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects.	
Precautionary statements		
General	: Not applicable.	
Prevention	 P210 - Keep away from heat, hot surfaces, sparks, ope sources. No smoking. P261 - Avoid breathing mist/vapors/spray. P280 - Wear protective gloves. P284 - In case of inadequate ventilation wear respirator P273 - Avoid release to the environment. 	-
Response	: P302 + P352 - IF ON SKIN: Wash with plenty of soap	and water.
Storage	: Not applicable.	
Disposal	: Not applicable.	
Hazardous ingredients	 p-butyl acetate hydrocarbons, C9, aromatics reaction product of bis(1,2,2,6,6-pentamethyl-4-piperid 1,2,2,6,6-pentamethyl-4-piperidylsebacate 	lyl)sebacate and methyl-
Supplemental label elements	: Warning! Hazardous respirable droplets may be forme breathe spray or mist. Contains small amounts of sensitizing substances: 4-n	

Other hazards

Other hazards which do

: None known.

not result in classification

SECTION 3: Composition/information on ingredients

: Mixture

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
p≁butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-
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
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤10	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	-
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-
reaction product of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl- 1,2,2,6,6-pentamethyl- 4-piperidylsebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.3	Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	-
4-morpholinecarbaldehyde	REACH #: 01-2119987993-12 EC: 224-518-3 CAS: 4394-85-8	≤0.3	Skin Sens. 1, H317	-
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0.3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	-

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			See Section 16 for the full text of the H statements declared above.	
L Thora are no additio	nal ingradianta procent	which within the ourr	ent knowledge of the supplier, are classi	

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.

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. Get medical attention if symptoms occur. 	
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 an allergic skin reaction.

May cause drowsiness or dizziness.

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 ₂ , 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 tha 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.	an
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

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Special protective actions for fire-fighters	: Move containers from fire area if keep fire-exposed containers con Fire water contaminated with this being discharged to any waterwa	ol. This material is s material must be	hazardous to aquatic organis	sms.
Special protective equipment for fire-fighters	: Fire-fighters should wear approp breathing apparatus (SCBA) with mode.			

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.
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	: Mapors 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.
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

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Product/ingredient name	Exposure limit valuesEU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit valuesSTEL: 150 ppm 15 minutes.STEL: 723 mg/m³ 15 minutes.TWA: 241 mg/m³ 8 hours.TWA: 50 ppm 8 hours.		
n-butyl acetate			
2-methoxy-1-methylethyl acetate	EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. TWA: 275 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 550 mg/m ³ 15 minutes.		

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 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 vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection	se safety eyewear designed to protect against splash of liquids (EN166).	
Hand protection	Iways wear approved protective gloves against chemicals. Gloves should be eplaced regularly and if there is any sign of damage to the glove material. The structions and information provided by the glove manufacturer on use, stor maintenance and replacement must be followed. ecommended glove material (EN374): 1 hour (breakthrough time): butyl rubber 8 hours (breakthrough time): laminated foil Not recommended: PVC or natural rubber (latex) gloves	he
Skin protection	/ear suitable protective clothing. This product is classified as flammable. I ecessary, personnel should wear antistatic clothing made of natural fibers o igh-temperature-resistant synthetic fibers.	
Respiratory protection	ventilation is inadequate, use respirator that will protect against organic va ust/mist. During spray-application use respirators with combination filter A/ EN405:2001). Wear a half mask or full face respirator with gas and vapor find dust filter P2 during sanding (EN140:1998, EN405:2001). During contin nd long-term work the use of motor-driven or air-fed respirators is recomme EN12941:1998). Be sure to use an approved/certified respirator or equivale heck that mask fits tightly and change filter regularly.	P3 Iter A uous ended
Environmental exposure controls	or information regarding environmental protection measures, please refer to ection 13 for waste handling, section 7 for handling and storage and sectior or relevant identified uses of the substance or mixture and uses advised aga	า 1.2

SECTION 9: Physical and chemical properties

9.1 Information on basic physica	l a	nd chemical properties
Appearance		
Physical state	:	Liquid.
Color	:	Various
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	:	<-90°C (n-butyl acetate)
Initial boiling point and boiling range	:	126°C (n-butyl acetate)
Flash point	:	23°C (n-butyl acetate)
Evaporation rate	:	1 (butyl acetate = 1) (n-butyl acetate)
Flammability (solid, gas)	;	Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits	:	Lower: 1.4% (n-butyl acetate) Upper: 7.6% (n-butyl acetate)
Vapor pressure	:	1.5 kPa [room temperature] (n-butyl acetate)
Vapor density	:	4 (n-butyl acetate)
Density	:	1.4 g/cm ³
Solubility(ies)		insoluble in water.
Partition coefficient: n-octanol/ water	:	Not applicable.
Auto-ignition temperature	:	415°C (n-butyl acetate)
Decomposition temperature	:	Not relevant for the hazard assessment of the product.
Viscosity	:	Kinematic (40°C): >20.5 mm²/s
Explosive properties	:	No explosive ingredients present.
Oxidizing properties	:	No oxidizing ingredients present.
Particle characteristics		
Median particle size		Not applicable.
median particle size		Mor applicance.

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.

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

Not classified.

Irritation/Corrosion

Not classified.

Sensitization

May cause an allergic skin reaction. 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 classified as environmetally hazardous according to Regulation (EC) 1272/2008. Toxic to aquatic life with long lasting effects.

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ydrocarbons, C9, aromatics	LC50 1 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute EC50 0.8 mg/l	Algae	72 hours
reaction product of bis (1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate and methyl- 1,2,2,6,6-pentamethyl- 4-piperidylsebacate	LC50 0.9 mg/l	Fish - Brachydanio rerio	96 hours
	LC50 0.97 mg/l	Fish - Lepomis macrochirus	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae - Selenastrum	72 hours

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		capricornut	um	
	Acute EC50 0.481 mg/l Fresh water	Daphnia - [Neonate	Daphnia magna -	48 hours
	Acute LC50 2.525 mg/l Fresh water	Fish - Danie	o rerio - Adult	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		Photolysis		Biodeg	radability
ydrocarbons, C9, aromatics	-		-		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
zínc oxide	-	28960	high
4-morpholinecarbaldehyde	-	<1.9	low
reaction product of bis (1,2,2,6,6-pentamethyl- 4-piperidyl)sebacate and methyl- 1,2,2,6,6-pentamethyl- 4-piperidylsebacate	-	9.65	low
2-methoxy-1-methylethyl acetate	1.2	-	low
trizinc bis(orthophosphate)	-	60960	high
n-butyl acetate	2.3	15	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 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)

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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 disposed of in accordance with national regulations.

Special precautions

: None.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
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			
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID	: The environmentally hazardous substance mark is not required when transported in
	sizes of ≤5 L or ≤5 kg.
	<u>Tunnel_code</u> (D/E)

- IMDG: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.Emergency schedulesF-E,S-E
- **IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for	1	Transport within user's premises: always transport in closed containers that are
user		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 : Not available. according to IMO

instruments

SECTION 15: Regulatory information

15.1 Safety, health and er	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 Pol 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.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
2	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]

Classif	ication	Justification
▶ fam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336 Aquatic Chronic 2, H411		On basis of test data Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H335May cause respH336May cause drovH304May be fatal if sH400Very toxic to aqH410Very toxic to aqH411Toxic to aquation	allergic skin reaction. Diratory irritation. wsiness or dizziness. Swallowed and enters airways.
Full text of classifications [CLP/GHS]	: Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Flam. Liq. 3 Skin Sens. 1 Skin Sens. 1A STOT SE 3	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
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Notice to reader		

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.