SAFETY DATA SHEET Page 1/5

TEMADUR SC 50

Date 9.7.2007 Previous date: 21.12.2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/ UNDERTAKING

1.1 Identification of the article

1.1.1 Commercial Product Name

TEMADUR SC 50

1.1.2 Product code

528 -series

1.2 Use of the Substance/Preparation

1.2.1 Intended use

Painting work.

Description: A two-component anti-corrosive polyurethane paint

1.3 Identification of the company

1.3.1 Supplier

Tikkurila Oyj

1.3.2 Contact information:

P.O.Box P.O.Box 53

Postcode and post office FI-01301 VANTAA

FINLAND

Telephone +358 9 857 71 **Telefax** +358 9 8577 6936

1.3.4 Responsible for the Safety Data Sheet:

Tikkurila Oy, Product Safety, e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

1.4.1 Telephone number, name and address

Tikkurila Oy, Environment and Safety: +358 9 857 71

2. HAZARDS IDENTIFICATION

Flammable.

Dangerous for the environment, N

Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information on hazard labelling in section 15.1.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Hazardous components					
	3.1.1		3.1.2	3.1.3	3.1.4	
	CAS number	EINECS	Chemical name of the substance	Concentration	n Classification	
	64742-95-6	265-199-0	Solvent naphtha, light arom	atic5 - 10 %	Xn N; R10-37-65-66-67-51/53	
	123-86-4	204-658-1	Butyl acetate	10 - 25 %	-; R10-66-67	
	7779-90-0	231-994-3	Zinc phosphate	5 - 10 %	N; R50/53	
	41556-26-7/ 82919-37-7	255-437-1/ 280-060-4	Pentamethylpiperidyl sebac	cate< 0,5 %	Xi N; R43-50/53	
	123-42-2	204-626-7	Diacetone alcohol	1 - 5 %	Xi; R10-36	

4. FIRST AID MEASURES

4.1 Additional advice

In all cases of doubt, or when symptoms persist, seek medical attention.

4.2 Inhalation

Remove to fresh air, keep patient warm and at rest.

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4.3 Skin contact

Remove contaminated clothing. Wash skin throughly with soap and water or use recognized skin cleanser.

4.4 Eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

4.5 Indestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Use foam, CO2, powder or water spray.

5.2 Extinguishing media which must not be used for safety reasons

Waterjet

5.3 Specific hazards

Fire will produce dense black smoke, which contains decomposition products. Avoid breathing the smoke.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid breathing vapours. Exclude sources of ignition.

6.2 Environmental precautions

Do not allow to enter drains or water courses.

6.3 Methods for cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand or vermiculite and place in a container for disposal according to local regulations. Clean preferably with a detergent; avoid the use of solvents. Note! Products containing oxidative drying oil or alkyd (linseed oil varnish, alkyd paints and - lacquers) have a possibility of auto-ignition in porous materials damped by the product. This kind of waste must be collected and stored e.g. in water before disposal or incinerated immediately.

7. HANDLING AND STORAGE

7.1 Handling

Vapours are heavier than air and may form explosive mixtures with air. Good ventilation must be provided. Keep away from sources of ignition. Take precautionary measures against static discharges.

7.2 Storage

Keep containers tightly closed. Store in a cool, dry, well ventilated place away from sources of heat and direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limit Values

8.1.1 Occupational exposure limit values

Butyl acetate 150 ppm (8 h) Diacetone alcohol 50 ppm (8 h)

8.1.2 Information on limit values

TLV-TWA = Threshold Limit Values - Time-weighted average / ACGIH 2005

8.2 Exposure controls

8.2.1 Occupational exposure controls

Provide adequate ventilation. Comply with the health and safety at work laws.

8.2.1.1 Respiratory protection

Use appropriate certified respirators, with gas and vapour filter A, during sanding with dust filter P2, if ventilation is insufficient. During spray-application use respirators with gas, vapour and dust filter AP. During continuous and long-term work the use of air-fed or motor-driven respirators is recommended.

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8.2.1.2 Hand protection

Always wear protective gloves (e.g. nitrile rubber). Barrier creams may also help to protect the exposed areas of the skin.

8.2.1.3 Eye protection

Safety eyewear must be used, specially during spray-application.

8.2.1.4 Skin and body protection

Protective clothing must be used during spray-application.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	General Information	(appearance,	odour)
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Coloured, viscous liquid, strong odour.

9.2	Important Health Safety and Envir	ronmental Information
922	Poiling point/range	404 407 00

9.2.2	Boiling pointrange	124 - 127 °C °)
9.2.3	Flash point	+ 23 °C *)

9.2.5 Explosive properties

 9.2.5.1
 Lower explosion limit
 1,4 vol-% *)

 9.2.5.2
 Upper explosion limit
 8,0 vol-% *)

9.2.7 Vapour pressure 1,2 kPa (20 °C) *)

9.2.8 Relative density 1,4 - 1,5

9.2.9 Solubility

9.2.9.1 Water solubility Insoluble

9.3 Other data

Evaporation rate (BuAc=1): 1,0 *)

*) = Butyl acetate

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

Solvent vapours may form explosive mixtures with air.

10.2 Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.3 Hazardous decomposition products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

See section 11.5.

11.2 Primary irritation

See section 11.5.

11.3 Sensitisation

Contains pentamethylpiperidyl compound. May produce an allergic reaction.

11.5 Human experience

11.5.1 Inhalation: Solvent vapours and spray mist harmful if inhaled. Long term exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache and dizziness.

11.5.2 Skin contact: Repeated or prolonged contact with the preparation may cause removal of the natural fat from the skin resulting in contact dermatitis. Splashes in the eyes may cause irritation.

11.5.3 Other effects: Harmful if taken internally.

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12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity

Zinc phosphate: LC50(fish) = 0,14-2,6 mg Zn2+/l; EC50(48h, daphnia magna) = 0,04-0,86 mg Zn2+/l, EC50 (72h, algae) = 0,136-0,150 mg Zn2+/lSolvent naphtha, light aromatic: LC50 = 1-10 mg/l, fish, crustacean, algae (estimate); toxic

12.3 Persistence and degradability

12.3.1 Biodegradation

Solvent naphtha, light aromatic: 78 %, 28 d; readily biodegradable

12.4 Bioaccumulative potential

Solvent naphtha, light aromatic: octanol/water partition coefficient log Pow = 3,7-4,5 (estimate)

12.6 Other adverse effects

There is no data available on the preparation itself. The product should not be allowed to enter drains or water courses.

13. DISPOSAL CONSIDERATIONS

13.1 Product residues: Gather residues into waste containers. Destroy according to the rules given by local authorities. EWC-code for liquid waste is e.g 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances).

13.2 Packaging waste: Empty cans should be recycled or disposed of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1	UN No	1263
14.2	Packing group	III
14.3 14.3.1	Land transport ADR/RID Class	3
14.3.3	Description of the goods	paint
14.4 14.4.1	Sea transport IMDG Class	3
14.4.2	Proper shipping name	paint
14.4.3	Further Information	EmS: F-E,S-E

15. REGULATORY INFORMATION

15.1 Information on the warning label

15.1.1 Letter code of the warning symbol and indications of danger for the preparation

N Dangerous for the environment

15.1.2 Names of the ingredients given on the warning label

Butyl acetate Zinc phosphate

15.1.3 R-phrase(s)

R10 Flammable.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R67 Vapours may cause drowsiness and dizziness.

15.1.4 S-phrase(s)

S23 Do not breathe vapour/spray. S29 Do not empty into drains.

In case of insufficient ventilation, wear suitable respiratory equipment.

15.1.5 Special regulations on certain preparations

Contains pentamethylpiperidyl compound. May produce an allergic reaction.

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16. OTHER INFORMATION

16.1 Full text of R-phrases referred to under sections 2 and 3

R10 Flammable.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R67 Vapours may cause drowsiness and dizziness.

R36 Irritating to eyes.

R37 Irritating to respiratory system.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

16.4 Additional information

The information of this MSDS is based on the present state of our knowledge and on current EC laws. It is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

Additional information available from: Tikkurila Oy, Product Safety, P.O. Box 53, FIN-01301 VANTAA, FINLAND, Telephone +358 9 857 71, Fax +358 9 8577 6936, E-mail: productsafety@tikkurila.com

Signature a/akk