

TEMASOLID SC-F 80

Date 13.7.2010

Previous date: 30.12.2008

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

- 1.1 Identification of the article**
1.1.1 Commercial Product Name
 TEMASOLID SC-F 80
- 1.1.2 Product code**
 578 -series
- 1.2 Use of the Substance/Preparation**
1.2.1 Intended use
 Painting work.
 Description: A two-component polyurea paint, base part.
- 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 Oyj, Product Safety, e-mail: productsafety@tikkurila.com
- 1.4 Emergency telephone number**
1.4.1 Telephone number, name and address
 Tikkurila Oyj, Environment and Safety: +358 9 857 71

2. HAZARDS IDENTIFICATION

Flammable.
 Irritant, Xi
 Dangerous for the environment, N
 Irritating to eyes and skin. May cause sensitization by skin contact. 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		3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
	3.1.1 CAS number	EINECS			
	108-65-6	203-603-9	2-Methoxy-1-methylethyl acetate	1 - 5 %	Xi; R10-36
	123-86-4	204-658-1	Butyl acetate	1 - 5 %	-; R10-66-67
	136210-30-5	429-270-1	Aspartic acid ester	10 - 25 %	Xi; R43-52/53
	13879-32-8	237-644-9	Bis-(2-phenoxyethyl)-formal	1 - 5 %	N; R51/53
	41556-26-7/	255-437-1/	Pentamethyl piperidyl sebacate	< 1 %	Xi, N; R43-50/53
	82919-37-7	280-060-4			
	64742-95-6	265-199-0	Solvent naphtha, light aromatic	5 - 10 %	Xn, N; R10-37-65-66-67-51/53
	7779-90-0	231-944-3	Zinc phosphate	5 - 10 %	N; R50/53
	54914-37-3	259-393-4	Cycloaliphatic diamine	5 - 10 %	C; R34-43-52/53

4. FIRST AID MEASURES

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- 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.
- 4.3 Skin contact**
Remove contaminated clothing. Wash skin thoroughly 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 Ingestion**
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. Avoid skin contact with the product.
- 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.

7. HANDLING AND STORAGE

- 7.1 Handling**
Avoid skin and eye contact. 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)
- 8.1.2 Information on limit values**
TLV-TWA = Threshold Limit Values - Time-weighted average / ACGIH 2009
- 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**

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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.

8.2.1.2 Hand protection

Always wear approved protective gloves (e.g. nitrile rubber) against chemicals. 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

Use suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 General Information (appearance, odour)**

Coloured, viscous liquid, strong odour.

9.2 Important Health Safety and Environmental Information

9.2.2 Boiling point/range 124-128 °C *)

9.2.3 Flash point 23 °C *)

9.2.5 Explosive properties

9.2.5.1 Lower explosion limit 3 vol-% *)

9.2.5.2 Upper explosion limit 10,4 vol-% *)

9.2.7 Vapour pressure 1,3 kPa (20°C) *)

9.2.8 Relative density 1,6

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

Exposure by inhalation and skin contact may cause sensitization.

11.5 Human experience

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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.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity****12.1.1 Aquatic toxicity**

Solvent naphtha, light aromatic: LC50 = 1-10 mg/l, fish, crustacean, algae (estimate); toxic

Bis-(2-phenoxyethyl)-formal: LC0 = 7 mg/l, LC100 = 12 mg/l, brachydanio rerio, 96 h.

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+/l

Piperidyl compound: LC50 = 0,97 mg/l, fish, 96 h; very toxic. LC50 = 7,9 mg/l, oncorhynchus mykiss, 96 h; toxic. EC50 = 20 mg/l, daphnia magna, 24 h.

12.3 Persistence and degradability**12.3.1 Biodegradation**

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

Bis-(2-phenoxyethyl)-formal: 0 %, 28 d, OECD 301D; not biodegradable.

Piperidyl compound: Partially but not 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	Land transport	
14.3.1	ADR/RID Class	3
14.3.3	Description of the goods	paint
14.4	Sea transport	
14.4.1	IMDG Class	3
14.4.2	Proper shipping name	paint
	Marine pollutant	yes
14.4.3	Further Information	EmS: F-E,S-E
14.5	Air transport	
14.5.1	ICAO/IATA Class	3
14.5.2	Proper shipping name	paint

15. REGULATORY INFORMATION

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15.1 Information on the warning label**15.1.1 Letter code of the warning symbol and indications of danger for the preparation**

Xi	Irritant
N	Dangerous for the environment

15.1.2 Names of the ingredients given on the warning label

Cycloaliphatic diamine
 Aspartic acid ester
 Zinc phosphate
 Butyl acetate

15.1.3 R-phrases(s)

R10	Flammable.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.1.4 S-phrases(s)

S23	Do not breathe vapour/spray.
S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.

16. OTHER INFORMATION**16.1 Full text of R-phrases referred to under sections 2 and 3**

R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R37	Irritating to respiratory system.
R65	Harmful: may cause lung damage if swallowed.
R34	Causes burns.
R10	Flammable.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 Oyj, 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

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