









	SERIE TAMPOCAT Code: 337161	
1. IDENTIFICATION OF THE PRODUCT AND COMPANY		
1.1 Product description:	SERIE TAMPOCAT Code: 337161	
1.2 Intended uses:	Tampographic printing ink.	
1.3 Company:	QUIMOVIL, S.A. Avinguda Torre d'en Malueu, 77-89 - 08210 - Barberà del Vallès (Barcelona) Phone: +34 93 7291944 - Fax: +34 93 7292923	
1.4 Emergency phone number:	+34 93 7291944	
2. COMPOSITION/INFORMATION ON INGREDIENTS		
2.1 Chemical description: Mixture of pigments, resins and additives in organic solvents.		
2.2 Dangerous ingredients: Substances taking part in a percentage higher than the exemption limit and presenting a health or environment hazard, and/or with a recognised exposure limit value:		
10-25 %	Diacetone-alcohol EC No. 204-626-7 CAS: 123-42-2	R36 No. 603-016-00-1 Xi
2,5-10 %	1-methoxypropyl acetate EC No. 203-603-9 CAS: 108-65-6	R10 R36 No. 607-195-00-7 Xi
2,5-10 %	Cyclohexanone EC No. 203-631-1 CAS: 108-94-1	R10 R20 No. 606-010-00-7 Xn
2,5-10 %	Naphtha solvent (oil), heavy aromatic EC No. 265-198-5 CAS: 64742-94-5	R65 R66 R67 R51/53 No. 649-424-00-3 Xn N
2,5-10 %	Naphtha solvent (oil), light aromatic EC No. 265-199-0 CAS: 64742-95-6	R10 R36 R66 R67 R51/53 No. 649-356-00-4 (Note P) Xn N
2,5-10 %	Xylene (mixture of isomers) EC No. 215-535-7 CAS: 1330-20-7	R10 R38 R20/21 No. 601-022-00-9 Xn
< 2,5 %	Isophorone EC No. 201-126-0 CAS: 78-59-1	R40 R21/22 R36/37 No. 606-012-00-8 Xn
< 2,5 %	1,2,4-trimethylbenzene EC No. 202-436-9 CAS: 95-63-6	R10 R20 R36/37/38 R51/53 No. 601-043-00-3 Xn N
< 1 %	Mesitylene EC No. 203-604-4 CAS: 108-67-8	R10 R37 R51/53 No. 601-025-00-5 Xi N
< 0,5 %	Propylbenzene EC No. 203-132-9 CAS: 103-65-1	R10 R37 R65 R51/53 No. 601-024-00-X Xn N
< 0,5 %	Chlorobenzene EC No. 203-628-5 CAS: 108-90-7	R10 R20 R51/53 No. 602-033-00-1 Xn N
For more information on dangerous ingredients, see sections 8, 11, 12 and 16.		
3. IDENTIFICATION OF HAZARDS		
Flammable. Irritating to eyes. Limited evidence of a carcinogenic effect. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.		
4. FIRST AID MEASURES		
	When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.	
4.1 By inhalation: Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.		



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4.2 By contact with the skin: Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.		
4.3 By contact with eyes: Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, until the irritation is reduced. Call a physician immediately.		
4.4 By ingestion: In case of accidental swallowing, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.		
5. FIRE-FIGHTING MEASURES		
5.1 Means of extinction: In case of fire, use water spray, alcohol-resistant foam, dry chemical powder, carbon dioxide, AFFF. Do not use for extinguishing: direct water jet.		
5.2 Specific risks: Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds, hydrochloric acid. Exposure to combustion or decomposition products may be a hazard to health.		
5.3 Fire-proof protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.		
5.4 Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.		
6. ACCIDENTAL RELEASE MEASURES		
6.1 Personal precautions: Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. For exposure controls and personal protection measures, see section 8.		
6.2 Environmental precautions: Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.		
6.3 Cleaning-up methods: Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a detergent. Avoid use of solvents. Keep the remains in a closed container. For subsequent waste disposal, follow the recommendations in section 13.		









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7. HANDLING AND STORAGE		
7.1 Handling precautions: Comply with the health and safety at work laws.		
- General recommendations: Avoid any type of leakage or escape. Keep the container tightly closed.		
- Recommendations for the prevention of fire and explosion risks: Vapours are heavier than air and may spread along floors to a considerable distance. Vapours can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Do not smoke. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Use explosion protected equipment. Switch mobile phones off.		
- Flash point	: 50.7 °C	
- Autoignition temperature	: > 409.9 °C	
- Lower explosive limit	: > 1.6 % Volume	
- Ventilation requirement	: > 94. m3/l	Air/Preparation
to keep below 1/10 of the Lower Explosive Limit.		
- Recommendations for the prevention of toxicological risks: Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.		
7.2 Storage conditions: Prevent unauthorized access. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. In order to avoid leakages, the containers, after use, should be closed carefully.		
- Class of store	: Class B2. According to ITC MIE APQ-1, RD.379/2001.	
- Temperature interval	: min: 5 °C, max: 40 °C	
- Incompatible materials: Keep away from oxidizing agents, acids, alkalis, amines.		
- Conditions to avoid: - Heat: Keep away from sources of heat. - Light: Avoid direct contact with sunlight. - Humidity: Avoid extreme humidity conditions.		
- Type of packaging: According to current legislation.		
7.3 Specific uses: For the use of this product do not exist particular recommendations apart from that already indicated.		



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION 98/24/EC				
8.1 Occupational Exposure Limits (TLV) AGCH 2001				
	TWA	STEL	C - Ceiling value.	Year
Diacetone-alcohol	50. 238.			1987
1-methoxypropyl acetate	50. 275.	100. 550.		Recommended Dermal
Cyclohexanone	25. 100.		A4	Dermal 1996
Naphtha solvent (oil), heavy aromatic	100. 525.			Internal value
Naphtha solvent (oil), light aromatic	50. 260.			Internal value
Xylene (mixture of isomers)	100. 434.	150. 651.	A4	1996
Isophorone		5.0	28. CA3	1995
1,2,4-trimethylbenzene	25. 123.			1987
Mesitylene	25. 123.			1987
Chlorobenzene	10. 46.		A3	1996
A3 - Carcinogenic in animals. A4 - Non classified as carcinogenic in humans.				
8.2 Occupational exposure controls in accordance with Guideline 89/686/EEC: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.				
- Ventilation requirement	: > 474. m3/l (maximum)		Air/Preparation	
to keep below the Occupational Exposure Limit of the product. Special ventilation is required.				
- Protection of respiratory system: Avoid the inhalation of vapours.				
- Mask:	Filter mask.			
- Protection of eyes and face: Install emergency eye baths close to the working area.				
- Goggles:	Safety goggles designed to protect against liquid splashes.			
- Face shield:	No.			
- Protection of hands and skin: Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.				
- Gloves: Nitrile rubber gloves. Neoprene rubber gloves. The breakthrough time of the selected glove material should be superior to the pretended use period. The gloves should be immediately replaced when any sign of degradation is noted.				
- Boots:	No.			
- Apron:	No.			
- Clothing: Personnel should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre.				
8.3 Environmental exposure controls: Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid				
disposal into sewers above the legal limits allowed in accordance with				



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9. PHYSICAL AND CHEMICAL PROPERTIES		
- Physical state : Liquid. - Colour : Blue. - Odour : Characteristic. - Viscosity : 90000.-110000. mPa.s 20°C - Specific gravity : 1.0-1.2 g/cc at 20°C - Solids : 37.-45 % Weight - Solubility in water : Not miscible - Decomposition temperature : ~ 100. °C - Vapour pressure : ~ 2.1 mmHg at 20°C		
For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.		
10. STABILITY AND REACTIVITY		
10.1 Stability: Stable under recommended storage and handling conditions.		
10.2 Dangerous reactions: Possible dangerous reaction with oxidizing agents, acids, alkalis, amines.		
10.3 Thermal decomposition: As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides, hydrochloric acid, halogenated compounds.		
11. TOXICOLOGICAL INFORMATION		
No experimental toxicological data on the preparation is available.		
11.1 Toxicological effects: Exposure to solvent vapour 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 kidneys, liver and central nervous system. Symptoms and signs include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea; other effects may be as described for exposure to vapours. Repeated or prolonged contact with the solvents of the preparation, may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Liquid splashes in the eyes may cause irritation and reversible damage. - Carcinogen effects: This preparation contains the following ingredients which can cause cancer: Isophorone (cat.3).		

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11.2 Dose and lethal concentrations for individual ingredients :		
Diacetone-alcohol : 4000. Rat 1-methoxypropyl acetate : 8532. Rat Cyclohexanone : 1535. Rat Naphtha solvent (oil), heavy aromatic : 9000. Rat Naphtha solvent (oil), light aromatic : 3900. Rat Xylene (mixture of isomers) : 4300. Rat Isophorone : 2330. Rat 1,2,4-trimethylbenzene : 5000. Rat Propylbenzene : 6040. Rat Chlorobenzene : 2290. Rat	DL50 Oral mg/kg DL50 Cutaneous mg/kg CL50 Inhalation mg/l.4hours	948. Rabbit 3000. Rabbit 3160. Rabbit 1700. Rabbit 1500. Rabbit 22. Rat
For more information about ingredients dangerous to health, see sections 2 and 8.		
12. ECOLOGICAL INFORMATION		
No experimental ecotoxicological data on the preparation as such is available.		
12.1 Spills on the soil: Prevent contamination of soil.		
12.2 Spills in water: Harmful to aquatic organisms. May cause long-term adverse effects on the aquatic environment. Do not allow to escape into drains, sewers or water courses.		
12.3 Emissions to the atmosphere: Avoid any solvent release into the atmosphere.		
- VOC : ~ 59. % Weight - VOC : ~ 660. g/l - Aromatic hydrocarbons : ~ 13. % Weight - Halogenated hydrocarbons : ~ 0.2 % Weight	ASTM D-3960	
12.4 Ecotoxicological data for individual ingredients :		
Diacetone-alcohol : 100. Fishes Cyclohexanone : 527. Fishes Naphtha solvent (oil), light aromatic : 9.2. Fishes Xylene (mixture of isomers) : 75. Fishes Mesitylene : 13. Fishes	CL50 mg/l.96hours CE50 mg/l.48hours CI50 mg/l.72hours	100. Algae 52. Algae 6.1 Daphnia 16. Daphnia
13. CONSIDERATIONS FOR DISPOSAL		
13.1 Handling of waste: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local/national regulations. For exposure controls and personal protection measures, see section 8.		
13.2 Disposal of empty containers: Emptied containers and packaging should be disposed of in accordance with currently local/national regulations.		
13.3 Procedures for neutralising or destroying the product: Controlled incineration in special facilities for chemical waste, but in accordance with local regulations. Contains halogenated compounds: In the case of incineration, take all necessary measures in order to avoid production and emission of furanes and dioxines into the atmosphere above the legal limits allowed.		

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14. TRANSPORT INFORMATION		
PRINTING INK		
14.1 Land:	Transport by road: ADR 2003 RID Transport by rail: RID Class: 3 Packaging group: III UN no. 1210 Transport document: Consignment paper. 30-F1-1210-SP Written instructions:	
14.2 Sea:	Transport by ship: IMDG 30-00 Class: 3 Packaging group: III UN no. 1210 Emergency Sheet (EmS): 3-05 First Aid Guide (MFAG): 311 Marine pollutant: No. Transport document: Shipping Bill of lading.	
14.3 Air:	Transport by plane: IATA/ICAO Class: 3 Packaging group: III UN no. 1210 Transport document: Air Bill of lading.	
15. INFORMATION ON REGULATIONS		
15.1 EC Labelling: R10 , Xn		
  	This product is FLAMMABLE and HARMFUL in accordance with Guideline 67/548/EEC~2001/59/EC and 1999/45/EC~2001/60/EC	
R10 Flammable. R36 Irritating to eyes. R40 Limited evidence of a carcinogenic effect. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S25 Avoid contact with eyes. S36/37 Wear suitable protective clothing and gloves. S43 In case of fire, use water spray. S51 Use only in well-ventilated areas.	- Dangerous ingredients: Isophorone	
15.2 Restrictions to the marketing and use in accordance with Guideline 76/769/EEC: Not applicable		
15.3 Other regulations: Not available		

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16. OTHER INFORMATION		
Text of R-phrases listed in section 2:		
R10 Flammable. R20 Harmful by inhalation. R36 Irritating to eyes. R37 Irritating to respiratory system. R38 Irritating to skin. R40 Limited evidence of a carcinogenic effect. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. R20/21 Harmful by inhalation and in contact with skin. R21/22 Harmful in contact with skin and if swallowed. R36/37 Irritating to eyes and respiratory system. R36/37/38 Irritating to eyes, respiratory system and skin. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
Note P : It is unnecessary to apply the classification as carcinogenic if it can be proved that the substance contains less than 0.1% benzene (EC No. 200-753-7) in weight.		
Material Safety Data Sheet regulations: This Material Safety Data Sheet has been written in accordance with Guideline 91/155/EEC~2001/58/EC.		
History:	Revision date: 15/07/2003 Provisional	
The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.		