

Rec'd 10-18-05

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Revision Date: August 2005 Document Reference: Tria Marker System

21371-XXXX
21381-XXXX
22109-XXXX**SAFETY DATA SHEET - TRIA MARKER SYSTEM****1. Identification of the preparations and Company**

Letraset Ltd, Wotton Road, Kingsnorth Industrial Estate, Ashford, Kent, TN23 6FL, UK. Tel: 01233 624421

TRIA MARKER PENS	A range of Tria Pantone by Letraset Colour Markers. Each marker has three writing nibs and is refillable.
PRO MARKER PENS	A limited colour range of dye based markers. Each marker having two writing nibs (fine and broad) and is refillable.
ILLUSTRATOR PENS	Specially formulated black and grey inks to be smear resistant when used in conjunction with normal Tria pens.
TRIA INKS	A range of Tria Pantone by Letraset Colour Inks supplied in 40ml & 28ml plastic bottles for easy refilling of the Tria pens or to obtain special effects when applied to your artwork with the Tria Colour Applicator.
TRIA BLENDER/EXTENDER	A clear base supplied in 40ml plastic bottles for blending with Tria Inks to reduce the colour strength.
TRIA SPECIAL EFFECTS/EXTENDER	A solvent blend supplied in 40ml plastic bottles to dilute Tria Inks or to obtain special effects when applied to your artwork with the Tria Colour Applicator.

2. Composition and information on ingredients

Component	Typical concentration range (%)					
	Inks & Blender/ extender	Fluorescent inks	Illustrator	Special Effects Extender	OES (ppm)	Pro Marker
Denatured Ethanol	60-70	40-50	-	25-35	1000	60-70
Methyl Lactate	10-15	40-50	-	-	no data	10-15
Dipropylene glycol monomethyl ether	5-10	-	-	-	100	5-10
Benzyl Alcohol	<4	-	-	-	100	<4
Surfactant and Antistat	<1	-	√	-	-	<1
Methoxypropanol	-	-	-	55-65	100	-
Water	-	-	√	balance	-	-
Resins and dyes	balance	balance	√	-	-	balance

3. Hazards identification

The Inks and Blender/Extender are classified as Highly Flammable; the Special Effects/Extender as Flammable. Illustrator is water based and not considered hazardous.

Under normal conditions of use, following the recommended handling procedures, adverse effects on health are unlikely. With a one-off skin contact, dryness may occur but irritation is unlikely. Prolonged or repeated skin contact may cause irritation possibly leading to dermatitis.

Very high vapour levels (above exposure limits), if inhaled, may cause irritation of nose/throat and produce headache, nausea & dizziness.

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4. First-aid measures

Skin:	In cases of skin contact wash the area with soap & water.
Eyes:	Irrigate the eye for a minimum of 15 minutes under running, water. Seek medical attention if irritation persists.
Inhalation:	Get casualty to breathe fresh air. Get medical attention if breathing difficulties occur.
Ingestion:	Do not induce vomiting. Seek medical advice.

5. Fire-fighting measures

Use dry powder or carbon dioxide extinguishers.

6. Accidental release measures

Spillage: Clean up any spillage immediately with a cloth. The very small quantities involved are unlikely to present any significant risk. Methylated Spirit may be used in small quantities to remove any residue, taking account of the precautions below.

7. Handling and Storage

- * DO NOT BREATHE VAPOUR.
- * USE ADEQUATE VENTILATION.
- * DO NOT USE FOR PROLONGED PERIODS IN CONFINED SPACES.
- * HIGHLY FLAMMABLE - KEEP AWAY FROM SOURCES OF IGNITION.
- * DO NOT SMOKE DURING OR IMMEDIATELY AFTER USE.
- * KEEP AWAY FROM CHILDREN
- * STORE AWAY FROM SOURCES OF HEAT OR IGNITION.

8. Exposure controls and personal protection

Refer to section 2 for details of the relevant Occupational Exposure Standards (OES). For occasional use it is very unlikely that these levels will be exceeded. Ensure the work area is well ventilated if use is prolonged or there are several users. If large areas are coloured by using the Tria Colour Applicator, local exhaust ventilation may be required to ensure vapours are below the OES.

9. Physical and chemical properties

Flash Points:	Inks and Blender/Extender:	16 °C (closed cup)
	Fluorescent Inks:	14 °C (closed cup)
	Special Effects/Extender:	25 °C (closed cup)

10. Stability and reactivity

The products are chemically stable under normal conditions of use. No reactions are likely to cause any health & safety risk. Do not leave inks in direct sunlight or near a window or colour changes may result.

11. Toxicological information

The preparations are not classified as Toxic or Harmful according to the CHIP2 Regulations.

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12. Ecological information

Not available

13. Disposal considerations

Do not pour inks or blenders into drains or sinks. Small quantities may be allowed to evaporate in the open air. Larger amounts must be classed as "Special Waste". Refer to the DOE booklet "Waste Management: The Duty of Care - A Code of Practice".

14. Transport information

For the purposes of Air Freight, the Markers are defined as "articles" under UK legislation and may be shipped as "non-hazardous" cargo.

Tria Inks and Blender Extender: Packing Group 2; Class 3

Tria Special Effects/Extender: Packing Group 3; Class 3

UN 1993 Flammable Liquids NOS

15. Regulatory information

Control of Substances Hazardous to Health Regulations [COSHH]	Yes
Chemicals (Hazard Information and Packaging) Regulations [CHIP2] [Safety phrases not required on label as receptacle volume <125ml]	R: 11 (10) * S: 16
Highly Flammable Liquid and Liquefied Petroleum Gas Regulations [HFL]	No as containers < 500ml
Environmental Protection Act [EPA]	See section 13

* Item in brackets refers to Special Effects/Extender only.

16. Other information

If using with *Letraj* and *Airbrush Power*, refer to MSDS_004.DOC.

Please contact Peter McKie (Director: Manufacturing & Technology) for further information.

Item Numbers: 21371-0000, 21371-0079, 21371-0489, 21371-1000, 21371-1001, 21371-1010, 21371-1020, 21371-1090, 21371-1150, 21371-1190, 21371-1200, 21371-1210, 21371-1360, 21371-1370, 21371-1449, 21371-1570, 21371-1625, 21371-1630, 21371-1680, 21371-1690, 21371-1700, 21371-1729, 21371-1767, 21371-1770, 21371-1780, 21371-1788, 21371-1797, 21371-1830, 21371-1840, 21371-1910, 21371-1920, 21371-1925, 21371-1950, 21371-1990, 21371-2000, 21371-2005, 21371-2009, 21371-2010, 21371-2011, 21371-2012, 21371-2014, 21371-2020, 21371-2070, 21371-2080, 21371-2100, 21371-2110, 21371-2120, 21371-2129, 21371-2130, 21371-2140, 21371-2170, 21371-2200, 21371-2210, 21371-2280, 21371-2300, 21371-2302, 21371-2304, 21371-2306, 21371-2308, 21371-2310, 21371-2311, 21371-2315, 21371-2320, 21371-2330, 21371-2340, 21371-2350, 21371-2375, 21371-2400, 21371-2440, 21371-2460, 21371-2500, 21371-2502, 21371-2504, 21371-2506, 21371-2508, 21371-2510, 21371-2520, 21371-2530, 21371-2540, 21371-2550, 21371-2582, 21371-2590, 21371-2600, 21371-2607, 21371-2630, 21371-2640, 21371-2650, 21371-2665, 21371-2706, 21371-2707, 21371-2716, 21371-2717, 21371-2718, 21371-2726, 21371-2727, 21371-2770, 21371-2790, 21371-2830, 21371-2840, 21371-2860, 21371-2930, 21371-2940, 21371-2970, 21371-2980, 21371-2985, 21371-2990, 21371-3000, 21371-3010, 21371-3040, 21371-3060, 21371-3100, 21371-3105, 21371-3107, 21371-3120, 21371-3125, 21371-3130, 21371-3145, 21371-3165, 21371-3190, 21371-3200, 21371-3240, 21371-3285, 21371-3292, 21371-3300, 21371-3310, 21371-3350, 21371-3370, 21371-3390, 21371-3400, 21371-3405, 21371-3407, 21371-3415, 21371-3460, 21371-3470, 21371-3510, 21371-3530, 21371-3540, 21371-3580, 21371-3600, 21371-3610, 21371-3680, 21371-3700, 21371-3710, 21371-3740, 21371-3750, 21371-3760, 21371-3820, 21371-3860, 21371-3935, 21371-3990, 21371-4000, 21371-4007, 21371-4010, 21371-4020, 21371-4060, 21371-4080, 21371-4090, 21371-4100, 21371-4200, 21371-4207, 21371-4210, 21371-4220, 21371-4240, 21371-4270, 21371-4280, 21371-4290, 21371-4300, 21371-4310, 21371-4320, 21371-4340, 21371-4350, 21371-4360, 21371-4370, 21371-4400, 21371-4500, 21371-4505, 21371-4580, 21371-4700, 21371-4710, 21371-4720, 21371-4750, 21371-4820, 21371-4850, 21371-4860, 21371-4880, 21371-4890, 21371-4900, 21371-4920, 21371-4930, 21371-5000, 21371-5005, 21371-5050, 21371-5100, 21371-5200, 21371-5270, 21371-5280, 21371-5300, 21371-5350, 21371-5360, 21371-5370, 21371-5400, 21371-5410, 21371-5420, 21371-5425, 21371-5440, 21371-5445, 21371-5480, 21371-5483, 21371-5490, 21371-5493, 21371-5500, 21371-5503, 21371-5520, 21371-5620, 21371-5767, 21371-5830, 21371-6000, 21371-6100, 21371-6170, 21371-6300, 21371-6310, 21371-6320, 21371-6780, 21371-6790, 21371-6800, 21371-6920, 21371-6930, 21371-6940, 21371-6980, 21371-7010, 21371-7100, 21371-8010, 21371-8020, 21371-8030, 21371-8050, 21371-8060, 21371-9000, 21371-9001, 21371-9002, 21371-9003, 21371-9004, 21371-9005, 21371-9006, 21371-9007, 21371-9008, 21371-9009, 21371-9010, 21371-9011, 21371-9012, 21371-9013, 21371-9014, 21371-9015, 21371-9016, 21371-9017, 21371-9018, 21371-9019, 21371-9020, 21371-9021, 21371-9022, 21371-9023, 21371-9024, 21371-9025, 21371-9026, 21371-9027, 21371-9028, 21371-9029, 21371-9030, 21371-9031, 21371-9032, 21371-9033, 21371-9034, 21371-9035, 21371-9036, 21371-9037, 21371-9038, 21371-9039, 21371-9040, 21371-9041, 21371-9042, 21371-9044, 21371-9045, 21371-9046, 21371-9047, 21371-9048, 21371-9049, 21371-9050, 21371-9051, 21371-9052, 21371-9053, 21371-9054, 21371-9055, 21371-9056, 21371-9057, 21371-9058, 21371-9059, 21371-9060, 21371-9061, 21371-9062, 21371-9063, 21371-9064, 21371-9065, 21371-9066, 21371-9067, 21371-9068, 21371-9069, 21371-9070, 21371-9071, 21371-9072, 21371-9073, 21371-9074, 21371-9075, 21371-9076, 21371-9077, 21371-9078, 21371-9079, 21371-9080, 21371-9112, 21371-9202, 21371-9220, 21371-9221