F



Paint Marker Ink All Colours Brown & Geeson Limited (UK) Safety Data Sheet (Prepared according to 91/155/EEC) Identification of the Substance / Preparation and of the company / undertaking 1.0 1.1 Product Name Paint Marker Ink 1.2 Intended use Marking ink for use in writing instruments **Composition / Information On Ingredients** 2.0 EINECS Conc'n % Symbols **R**-phrases Contains: CAS 75 to 90% Ethanol 200-578-64-17-5 F, Xi R11 (Ethyl Alcohol) 6 Pigments, Resins, N/A N/A 10 to 25% Release Agents, Surfactants*

Note: The complete text of risk –*R*- phrases can be found in Section 15 and 16 *The chemical nature of these ingredients is dependent upon colour.

3.0	Hazards Identification			
3.1	Preparation Classification	This preparation is dangerous under 67/548/EEC and 1999/45/EC regulations as amended. This preparation requires a Safety Data Sheet in accordance with 91/155/EC as amended. Additional information relating to health and environmental hazards can be		
		found in Sections 11 and 12 of this Safety Data Sheet.		
3.2	Danger Symbols:	F, Xn		
3.3	Phrases – R–	R11 R20/22		
3.4	Danger Identification	HIGHLY FLAMMABLE. RISK OF SERIOUS DAMAGE TO EYES. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. HARMFUL IF SWALLOWED.		

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4.0	First Aid Measures			
	Route	Effect	First Aid	
4.1	Skin Contact	Will degrease skin - can cause irritation	Remove any contaminated clothing. Wash with soap & flowing water for 15 minutes. If irritation continues consult a physician.	
4.2	Eye Contact	May cause damage	Irrigate with a suitable eye solution or water for ten minutes - obtain medical attention.	
4.3	Inhalation	Narcotic avoid inhalation	Remove from exposure - in severe cases obtain medical attention.	
4.4	Ingestion	Harmful	Give plenty to drink if ingestion is suspected. DO NOT induce vomiting and consult a physician.	
5.0		Fire	-Fighting Measures	
5.1	Hazard	Low Flash Point - 13°C (Closed Cup) Explosive Limits: Lower Limit 3.3% to 19% Upper Limit.		
5.1	Extinguishing Media	Alcohol resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Water may not be effective initially.		
5.2	Media to avoid			
5.3	Hazardous Combustion Products	Carbon Monoxide (CO) can form with incomplete combustion. Some Oxides of Nitrogen (NO _x) and Sulphur (SO _x) could be formed. Complete combustion will yield primarily Carbon Dioxide (CO ₂) and Water.		
5.4	Protective Equipment	Fire fighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece		
5.5	Additional Information	Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Move exposed containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.		
6.0		Accide	ntal Release Measures	
6.1	Personal Precautions	Avoid contact with skin and eyes. Ventilate contaminated area thoroughly. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible, without personal risk.		
6.2	Environmental Precautions	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.		
6.3	Method of Clean Up	Absorb or contain liquid with sand, earth or spill control material. Collect avoiding possible spark ignition and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum. Solvent is miscible with water. Flush contaminated area with plenty of water. Retain washings as contaminated waste. Refer to Sections 8.0 and 13.0 for additional information on Exposure and Disposal.		
7.0		Har	ndling and Storage	
7.1	Handling	Product is not intended nor should be allowed to maintain prolonged skin contact. Ensure good ventilation or the provision of local exhaust ventilation where possible. Avoid contact with eyes, skin and clothing, avoid ingestion and inhalation. Avoid sources of Ignition.		
7.2	Storage	Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas. Keep container tightly closed and in a well-ventilated place.		
7.3	Product Transfer	Low flash point requires attention to equipment used in transport and use so as to avoid sparks and other sources of ignition. Take precautionary measures against static discharges. Earth all equipment. Avoid splash filling. Do not empty into drains.		

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8.0	Exposure Controls / Personal Protection			
8.1	Exposure Limit	Methanol	8hour TWA 200ppm (266mg/m3) UK	
	Values		STEL (15 mins) 250ppm (333mg/m3) UK	
		Ethanol	8hour TWA 1000ppm (1920mg/m3) UK	
8.2	Personal Protection			
	Respiratory	Avoid inhal	ation of the vapors when the product in being used.	
	Protection	Local exhaust ventil	ation (LEV) should be used in conjunction with other control	
		measures as a means of removing material incidentally released.		
		Турє	approved RPE for organic vapors if required.	
	Hand Protection	Protective Butyl gloves		
	Eye Protection	Safety goggles or face shield		
	Skin Protection	Overalls and anti-static safety shoes		
	Additional	Do not permit smoking whilst product is used.		
0.0		Keep away from children.		
8.3	Environmental		See Section 12 for detailed information	
	Exposure			
9.0		Physical and Chemical Properties		
9.0	Odour	Characteristic Odour of Ethanol		
	Annearance	Coloured Liquid		
	Volatility	Δηριτου 80% Violatile Solvents		
	nH	Approx 60 % volatile solvents		
	Boiling Point / Range	78°C		
	Flash Point	13°C		
	Auto-ignition	363°C		
	Explosive Properties	This preparation is not considered explosive		
		It will form explosive Vapour / Air Mixtures		
	Explosive Limits:	Lower Limit 3 3% to 19% Upper Limit		
			(Volume % in Air)	
	Oxidising Properties	N/A		
	Vapour Pressure	5.81	Pa at 20°C and approximately 30 kPa at 50°C	
	Relative Density	0.89 – 1.16		
	Solubility	Water Solubility – Solvents Miscible with Water		
	Partition Coefficient			
	Viscosity	14 – 30 cP		
	Vapour Density	Relative density of the vapour $(Air = 1.0) = 1.6$ (ethanol)		
	Evaporation Rate		3.4	
	(Bu Ac =1)			
10.0		Stability and Reactivity		
10.1	Conditions to Avoid		Considered a Stable Product.	
10.2Materials to AvoidReacts with strong oxidants causing fire and explosion haz		strong oxidants causing fire and explosion hazards.		
		Can also react with acid	chlorides, acid anhydrides, aluminium and copper. It may attack	
10.2	11. 1	some forms of plastic and rubber.		
10.3	Hazardous	May give of irritant / to	oxic tumes it involved in a fire. Primarily forms oxides of carbon	
11 0	Decomposition	Tavia	auring compustion.	
11.0	Acute Effects			
11.1	Vanour inhalation	Atavia Confusio	on Dizziness Drowsiness Headache Nausea Weakness	
		Atania, Comusio		

	Skin De-fatting of Skin. Dry Skin			
		Note that dermal absorption of solvents could also contribute substantially to the total		
		body burden.		
	Eyes	Lacrimation, Redness, Pain, Blurred Vision		
	Ingestion	Abdominal Pain, Sore Throat, Drowsiness, Headache, Nausea		
11.2	Target Organ Effects	The preparation may cause Liver & Kidney damage if abused.		
11.3	Sensitisation	Allergic skin reaction / dermatitis could occur with misuse of this preparation.		
12.0	Ecological Information			
12.1	Ecotoxicity	Ethanol		
		Exhibits low acute toxicity to aquatic species and is not expected to bioaccumulate.		
		Rainbow Trout – LC50 11200mg/l (24H)		
		Daphnia – EC50 >9000mg/l (48hrs)		
		Methanol		
		Rainbow Trout – LC50_8000mg/I (48H)		
12.2	Mobility	Mobile liquid. Contains approx. 80% volatile components.		
	,	Solvents readily absorbed into soil.		
		Non volatile content only slightly soluble in water.		
		Pigments vary in solubility and some leaching into soil may occur from the non volatile		
		fraction.		
12.3	Persistence and	Solvents are readily biodegradable.		
	Degradability	, ,		
12.4	Bio accumulative	Ethanol		
	Potential It will partition to water and is unlikely to bio-concentrate in aquatic or			
		Polymer Dye		
		Insoluble in water		
12.5	Other Adverse Effects			
13.0	Disposal Considerations			
		Dispose of spilled material and containers in accordance with State and Local		
		regulations for hazardous or 'Special' waste. Consider recycling or incineration. State or		
		Local regulations are complex and subject to change so should be consulted by the		
		owner of the waste prior to disposal.		
14.0	Transport Information			
	UN No:	1993		
	Proper Shipping	Flammable Liquid n.o.s (Contains Ethanol)		
	Name:			
	ADR, IATA, IMDG	3		
	Hazard Class			
	Packing Group	2		

15	Regulatory Information				
15.1	Hazard Symbols	F	Xi		
		^			
15.2	-R-nhrases				
13.2	R11	HIGHLY FL	AMMABLE		
	R20/22	HARMEUL BY INHALATI	ON AND IF SWALLOWED		
15.3	-S-Phrases				
	S (2)	KEEP OUT OF THE REACH OF CHILDREN			
	S7	KEEP CONTAINER	R TIGHTLY CLOSED		
	S16	KEEP AWAY FROM SOURCES	OF IGNITION – NO SMOKING		
	S36/37	WEAR SUITABLE PROTECTIVE CLOTHING	G, GLOVES AND EYE / FACE PROTECTION		
	S45	IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY			
		(SHOW LABEL W	/HERE POSSIBLE)		
15.4	Contains	Eth	Ethanol		
16		Other information			
16.1	-R-Phrases				
	R23/24/25		CT WITH SKIN AND IF SWALLOWED		
	R39/23/24/25	TOXIC: DANGER OF VERY SERIOUS IRREVERSIBLE EFFECTS THROUGH INHALATION, IN			
	R68/20/21/22	HARMFUL: POSSIBLE RISK OF IRREVERSIBLE EFFECTS THROUGH INHALATION, IN			
		CONTACT WITH SKIN AND IF SWALLOWED			
16.2	Select Bibliography	Regulation 67/548/EEC			
		Regulation	91/155/CE		
		Regulation 1999/45/CE			
		Regulation	2001/58/CE		
		Regulation 2001/59/CE			
		Regulation	2001/60/CE		
16.3					
16.4					
16.5					
16.6	HS Tariff No:	321590 10			
16.7	The information cont	ained herein does not constitute the user's ov	vn assessment of workplace risk as required		
	by other health and safety legislation. The above information is provided in good faith and is based on our present knowledge. It shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual arrangement.				

Brown & Geeson Limited, Unit 12 Buckingham Square, Wickford, Essex, SS11 8YQ, United Kingdom. T: +44 (0) 1268 764411 E: info@brownandgeeson.com

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