

<u>1.</u>	Product : HYLOMAR UNIVERSA						
2.	Composition / Information on Hazardous Ingredients						
	Material <u>%</u>	_	<u>Health</u>		CAS No.		
	Dichloromethane 5-1			R40	75-09-02		
		-70		R12	67-64-1		
		-25		R12	74-97-8		
		-25		R12	74-98-6		
3.	Hazards Identification :						
	Harmful contains Dichloromethane. Extr	emely	flamma	able			
	Possible risk of irreversible effects.						
	Slight irritant to skin and eyes especially on prolonged or repeated contact. Exposure well in excess of the MEL may result in loss of consciousness and can prove suddenly fatal. Converted in the body to carbon monoxide which reduces the oxygen-carrying capacity of the blood. UK maximum exposure limit (8hr TWA) 100ppm.						
4.0	First Aid		4.4	Ingestion :			
	Effects of Over Exposure By :				all splashes in unlikely		
4.1	Eye Contact :			to cause any significant reaction. Larger			
	Moderately irritant. Splashes in the eye may			doses can cause internal irritation, nausea vomiting and diarrhoea – and can lead to drowsiness or unconsciousness.			
	result in transient eye damage.						
4.2	Skin Contact :			Long Term Effects			
	Slightly irritant. Will remove the natural			-	o high concentrations		
	greases resulting in dryness and cracking			may result in loss of o			
	and possible dermatitis. Prolonged exposure, eg with soaked clothing can			produce adverse effe			
	cause reddening, blisters and burns. Can be			kidneys. A chronic inl			
	absorbed but not in amounts sufficient to cause adverse systemic effects.			mouse has shown it t			
				this species, when ex			
4.3	Inhalation :			tumours in both the li	Exposure Limit causing		
	Exposure to high concentrations of vapo	our			hic studies in the mous		
	affects the central nervous system and			rat and the hamster h			
	initially results in light-headedness, nausea,			significant evidence of			
	vomiting and headache. The first indications of light-headedness are seen at			Extensive human epi			
				have been shown no			
	concentrations of 1000ppm after 20 min	atoo		human effects followi			
	concentrations of 1000ppm after 20 min of exposure. Continued or very high			nrolongod ovnocuro i			
	concentrations of 1000ppm after 20 min of exposure. Continued or very high exposure may result in loss of				under normal condition		
	of exposure. Continued or very high exposure may result in loss of consciousness and can prove suddenly			Biochemical studies I	under normal condition have placed the		
	of exposure. Continued or very high exposure may result in loss of consciousness and can prove suddenly fatal. Can cause irritation of the respirate			Biochemical studies I observations found ir	under normal condition have placed the		
	of exposure. Continued or very high exposure may result in loss of consciousness and can prove suddenly fatal. Can cause irritation of the respirate tract. Metabolism to carbon monoxide			Biochemical studies h observations found ir with human exposure strengthened the con	under normal condition have placed the the mouse into conte these studies have clusion the methylene		
	of exposure. Continued or very high exposure may result in loss of consciousness and can prove suddenly fatal. Can cause irritation of the respirate tract. Metabolism to carbon monoxide results in carboxyhaemoglobinaemia,	ory		Biochemical studies I observations found ir with human exposure strengthened the con chloride does not pre	under normal condition have placed the hthe mouse into conte		
	of exposure. Continued or very high exposure may result in loss of consciousness and can prove suddenly fatal. Can cause irritation of the respirate tract. Metabolism to carbon monoxide results in carboxyhaemoglobinaemia, reducing the oxygen carrying capacity of	ory of		Biochemical studies I observations found in with human exposure strengthened the con chloride does not pre to man. (2) (3).	under normal condition have placed the the mouse into conte . These studies have clusion the methylene sent a carcinogenic ris		
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100ppm (STEL 10 min TWA 250ppm

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Treat	ment of Over Exposure By:	4.8	Ingestion :	
 4.5 Eye Contact : Irrigate for at least 10 minutes with eyewash solution or clean water. Obtain medical attention. 4.6 Skin Contact : Remove contaminated clothing. Wash 			DO NOT induce vomiting. If more than trace quantities have been swallowed and the patient is conscious, wash out mouth with water and give 250ml (half a pint) of warm water to drink. Obtain medical attention. Further Medical Advice:	
	affected area of skin thoroughly with soap & water.		Symptomatic and supportive therapy as indicated. Cardiac arrest is possible following	
4.7	Inhalation : Remove to fresh air, keep warm and at rest. DO NOT WALK the patient about. Administer oxygen if necessary. If breathing has ceased apply artificial respiration. In the event of cardiac arrest apply external cardiac massage. Obtain medical attention.		exposure to high vapour concentrations which may in the presence of circulating catecholamines such as adrenaline cause cardiac arrhythmias and subsequent arrest. Therefore avoid adrenaline and similar sympathomimetics. Absorbents such as activated charcoal may be of value following ingestion – or gastric lavage within four hours of ingestion.	
5.0	Fire-Fighting Measures	5.3	Exposure Hazards	
5.1	Suitable Extinguishing Media Alcohol Resistant Foam, CO2, Powder, Water Mist.		Vapours harmful and heavier than air, will collect in pits and cellars etc. When heated to decomposition forms toxic acid fumes of hydrogen chloride.	
5.2	Unsuitable Extinguishing Media Do not use water jet.	5.4	Protective Equipment for Fire-Fighters Breathing apparatus should be worn.	
6.0	Accidental Release Measures	6.3	Clean-Up and Neutralisation Methods.	
6.1	Personal Precautions Wear respirator, protective goggles and solvent resistant gloves. Exclude sources of ignition and ventilated the area.		Take up with absorbent material, dispose of as described.	
6.2	Environmental Precautions Spillages should be contained and covered with sand or other absorbent material to prevent the flow of liquid into drains, sewers, basement etc			
7.0	Handling and Storage	7.2	Storage Precautions	
7.1	Precautions for Safe Handling Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour		Store below 50°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Observe the label precautions. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.	
	concentrations higher than the occupational exposure limits. Use only in areas from which all sources of	7.3	Other Information	
	heat, sparks and open flame s heave been excluded.			
	Avoid skin and eye contact Smoking, eating and drinking should be			

Hylomar Ltd, Cale Lane, Wigan WN2 1JT UK	Revision date	24.04.03	Page 2 Of 4
Tel: +44 (0) 1942 617000 Fax: +44 (0) 1942 617001	Product name	Hylomar Universal Blue Aerosol	
US Emergency Response No 1-800-373-7542			



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MATERIAL SAFETY DATA SHEET

8.0	Exposure Controls / Personal Prote	ection 8.4	Hand Protection		
8.1	Technical Protective Measures	45.00	When skin exposure sought from the glov	may occur, advice may	
	Ingredient name OES/MEL 8hr TWA STEL	15m		arrier creams may help	
	Dichloromethane MEL 100ppm			ed areas of the skin but	
	Butane OES 600ppm 750ppm			or full physical protection.	
	Engineering Measures		They should not be a	applied once exposure	
	Provide adequate ventilation to maint		has occurred.		
	flammable vapour concentration of	8.5	Skin Protection		
	substrates to which an OES has been		Cotton or cotton/syn		
	assigned is below that OES (Occupa	tional	normally suitable. Gr		
8.2	Exposure Standard). Exposure Control Limits		clothing should be re washed with soap or		
8.3	Respiratory Protection		cleaner.	a proprietary skiri	
0.5	Air-fed respiratory equipment should b	e worn 8.6	Eye / Face Protection	on	
	when this product is sprayed if the exp			ned to protect against	
	of the sprayer or other people nearby cannot		liquid splashes shou		
	be controlled to below the occupationa				
	exposure limit and engineering contro				
	measures cannot reasonably be impro				
9.0	Physical and Chemical Properties	9.10	Oxidising Properties : None		
9.1	Physical State : Aerosol	9.1	Vapour Pressure: 2.75 bar		
9.2	Colour : Blue	9.12			
9.3	Odour : Sweet	9.13		pecific Gravity :	
9.4	pH Value : N/A		Approx 1		
9.5	Boiling Point / Range: 40°C	9.14	,		
9.6	Flammability : Extremely flammable		Solubility in Water : N/A		
9.7	Flashpoint : Below 0°C	9.10	Solubility in Fats and Oils : Degreases		
9.8	Autoignition Temperature : >250°C		Partition Coefficient (n-Octanol / Water) : Not known		
9.9	Explosive Limits : LEL 0.8% (% Vol			Miscibility, miscible with	
	@ 25°C UEL 66.4% (% Vol in Air @ 2	5 ()	most organic solvents		
		9.19	•		
10.0	Stability and Reactivity	10.2	2 Materials to Avoid Alkali metals may cause reaction.		
	Stable				
10.1	Conditions to Avoid	10.3	.3 Hazardous Decomposition Products		
	Contact with red hot surfaces, sparks or		Contact with red hot		
	naked flames may generate acid fume	s.		enerate small quantities	
			of toxic acid fumes of	of hydrogen chloride.	
11.0	Toxicological Information				
	Vapours have depressive effect on central nervous system. Will cause headaches, intoxication, false				
	sense of well being at concentrations as low as 500ppm. At higher concentrations can cause narcotic effect & loss of consciousness. Due to its high volatility, toxic concentrations can rapidly develop.				
	Contact with skin if prolonged can cau				
	slight irritation but quickly heals without				
12.0	Ecological Information Not available				
13.0	Disposal Considerations				
	Disposal Method				
	Residues should be stored in drums a	nd advice sou	ght from the Waste Dispo	osal Contractor	
	Statutory provisions				
	• •	Devide and stat	24.04.02		
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MATERIAL SAFETY DATA SHEET

	Local Waste Disposal Author	ority.			
14.0	Transport Information				
RID/ADR IMDG			ICAO/IATA		
Class : 2.1 Cl		Class :		Class :	
Items :		No.		UN/ID No.	
Hazard No : P		PG :		PG :	
UN No. 1950 N		MFAG No :		Proper Shipping Name	
Proper Shipping Name Pro		Proper Shipping	Name		
Aerosol Marine Pollutant YE			YES/N	0	
15.0	Regulatory Information		15.3	Safety Phrases	
15.1	15.1 Classification			S2 Keep out of reach of children	
	Carc, Cat 3, Harmful			S23 Do not breathe fumes.	
15.2	15.2 Risk Phrases			S24/25 Avoid contact with eyes and skin	
R40 Limited evidence of a ca effect		carcinogenic		S46 if swallowed seek medical advice immediately and show this label	
	R12 Extremely flammable		15.4	Specific EC Controls	
	-		15.5	Relevant UK Legislative Controls	
				CHIP 2 Regulations 1994	
16.0	Other Information		16.2	Further Information	
16.1	Training Advice		16.4	Sources of Key Data	
16.2	-			Suppliers MSDS Sheets CHIP 2 Regulations 1994.	

Every effort has been made to ensure that the information in this Safety Data Sheet is accurate and reliable, but the company cannot accept liability for any loss, injury or damage which may result from its use. Data given in this Safety Data Sheet is solely for the guidance in safe handling and use of the product by customers - they do not constitute a specification. Customers are reminded that there may be applications of our products which are protected by patent, under which they have no rights whatsoever. If any difficulties should arise, we will be happy to discuss them. Customers are encouraged to carry out their own tests. Before using any product, read the label carefully.

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