

# SAFETY DATA SHEET

#### RS REACh revision date 01/04/10

Product:	Hylotyte	Red Tube Gr	ade DCM.			
Supplier:	Hylomar I	Limited. Cale	Lane. New Springs. Wigan. Wi			
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r	US Emerg	gency Respons	e No 1-800-373-7542			
2. Hazards	HARM	,				
identification		Contains Dichloromethane. Limited evidence of a carcinogenic effect. UK workplace exposure limit				
			00ppm. Exposure well in excess	-		
		•	enly fatal. Converted in the body	to carbon monoxide,	which reduces the oxyge	
		ng capacity of t				
3. Composition	/Informa	ation on haza	ardous ingredients			
	Materia	l	%	Risk	CAS Number	
Dichloromethane	е		25 – 50	R40	75-09-02	
Mono Ethylene (	Glycol		0.1 – 0.5	R22	107-21-1	
4. First aid -	4.1	Eye Contact:	Severe eye irritation, water & re	dness. Risk of eye lesi	ons.	
Effects of Over	4.2		t: Can be absorbed by intact ski In case of repeated contact dry			
Exposure By	4.3	restlessness, chemical pne	ight nose irritation. At high cond dizziness, nausea, vomiting, dr umonitis, pulmonary oedema. Ir	owsiness, narcosis, can case of repeated or p	rdiac arrhythmia, risk of	
	4.4	Ingestion: Br stomach. Nau	eadaches, fatigue & risk of nervous system effects gestion: Breath smells of chloroform. Severe irritation of the mouth, throat, oesophagus & omach. Nausea, vomiting, abdominal cramps and diarrhoea. Feelings of intoxication, stlessness, dizziness & drowsiness. Risk of cardiac arrhythmia, liver & kidney alterations.			
	Treatment of Over Exposure By:					
	4.5		<b>ye Contact:</b> Flush eyes with running water for 15 minutes, while keeping the eyelids wide pen. Consult with an ophthalmologist in all cases.			
	4.6		in Contact: Remove all contaminated shoes & clothing. Clean with soap & water. Clean thing. Consult with Doctor in case of persistent pain or redness			
	4.7	Keep warm.	halation: Remove to fresh air, lying person down with the head higher than the body. eep warm. Oxygen or cardiopulmonary resuscitation if necessary. Consult with Doctor in se of respiratory & nervous symptoms.			
	4.8	rinse mouth w tight clothing, necessary. Ke	<b>gestion:</b> Consult with Doctor in all cases, take to hospital. If subject is completely conscious se mouth with water – do not allow vomiting. If the subject is unconscious loosen collar & nt clothing, lay victim on his/her left side. Oxygen or cardiopulmonary resuscitation if cessary. Keep warm. Pulmonary resuscitation (Oxygen therapy). Prevention or treatment of Imonary oedema & bacterial secondary infection. Rest & 48 hours medical surveillance.			
	4.9	General: Car drugs	induce an increase of the carbo	xyhemoglobin level. Do	o not give adrenergetic	
5. Fire fighting	measure	<b>es</b> 4.10	Suitable Extinguishing Media	: Water spray, foam, p	owder & CO2	
- •		4.11	Unsuitable Extinguishing Me	dia : No restriction		
		4.12	<b>Exposure Hazards:</b> Non-comb case of decomposition (see Sec form flammable mixtures in pres	ction 10). No flash poin		
		4.13	Protective Equipment for Fire apparatus when in close proxim team with water spray when ap	ity or in confines space		
6. Accidental re measures	elease	6.1	<b>Personal Precautions:</b> Local & overalls	ventilation. Protective	clothing, gloves, goggles	
		6.2	Environmental Precautions: rivers, and soils). Notify approp			
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		6.3	<b>Clean-Up and Neutralisation Methods:</b> If possible dam large quantities with sand or earth. Remove product with inert absorbent, sand or vermiculite. Place everything in a closed, labelled container compatible with the product. Store in a safe isolated place. Disposal, see section 13.
7. Handling and storage		7.1	<b>Precautions for Safe Handling:</b> Observe normal standards of industrial hygiene for handling chemicals. Avoid contact with skin & eyes. Avoid breathing vapours.
		7.2	<b>Storage Precautions:</b> Store in a cool, dry place between 5° - 25°C with adequate ventilation.
		7.3	<b>Other Information :</b> Shelf life is 2 years when stored in original unopened containers as detailed in para 7.2
8. Exposure controls/Pers	sonal	8.1	<b>Technical Protective Measures :</b> Atmospheric levels of vapour should be maintained at the lowest level reasonably practicable below the control limit
protection		8.2	<b>Exposure Control Limits :</b> UK Workplace Exposure Limit (WEL) 8 hour TWA = 100 ppm (STEL 15 min TWA = 300 ppm)
		8.3	<b>Respiratory Protection:</b> Face mask with type A cartridge in cases where control limits may be exceeded. Self contained breathing apparatus in case of large uncontrolled emissions or in all circumstances when the mask & cartridge do not give adequate protection. Use only HSE approved equipment.
		8.4	Hand Protection: Solvent resistant gloves
		8.5	Skin Protection : Overalls
		8.6	Eye / Face Protection : Safety glasses with eye shields, or goggles
		8.7	<b>Recommended monitoring methods:</b> Drager tube, methylene chloride 100/a
0 Dhysical a	nd chamical	9.1	Physical State : Thixotropic gel
9. Physical and chemical		9.2	Colour : Dark red
properties		9.3	Odour : Sweet
		9.3 9.4	
		9.5	Flammability : N/A
		9.6	Flashpoint : None
		9.7	Auto ignition Temperature : 600°C
		9.8	Explosive Limits : Can form explosive mixtures with oxygen
		9.9	Vapour Pressure : 355mm Hg @ 20°C, 515mm Hg @ 30°C
		9.10	Vapour Density : 2.93 (air = 1)
		9.11	Relative density / Specific Gravity : Approx 1.59
		9.12	Solubility in Fats and Oils: Degreases. Miscible with most organic solvents
		9.13	Viscosity : Light thixotropic gel
10. Stability a	and reactivity	10.1	<b>Conditions to Avoid:</b> Contact with red-hot surfaces or naked flames may generate acid fumes.
		10.2	Materials to Avoid: Alkali metals may cause reaction.
		10.3	Hazardous Decomposition Products : Contact with red-hot surfaces or naked flames may generate small quantities of toxic acid fumes or hydrogen chloride
11. Toxicological Information		LC50 Ir	<b>Foxicity:</b> LD50 Oral Rat; 1410 – 2524 mg/kg, LD50 Dermal Rat; >2000 mg/kg, halation Rat; 6 hr 15000 ppm, lirritation; Rabbit – irritant to skin & eyes, zation, no data.
		<b>Chronic Toxicity:</b> Inhalation, after repeated exposure, various species, target organ; liver, kidney, lungs, central nervous system > = 1000 ppm. Mutagenic effect in vitro but not vivo. No effect on reproduction. Oral route, after repeated exposure, target organ; liver > = 200 mg/kg. Inhalation after prolonged exposure, mouse, target organ; liver/lungs, carcinogenic effect. Inhalation after a single exposure, cardiac sensitization following adrenergic stimulation.	
		sensitiz	ents: Irritant effect for skin & eyes. Risk of anaesthetic effect & cardiac ation. Carcinogenic effect not applicable to human. Risk of effect on the kidney, ung. Risk of the central nervous system effect. The compound is metabolised into monoxide in various animal species & humans leading to methemoglobinemia
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12. Ecological information	Acute ecotoxicity: Fishes, various species LC50, 96 hr between 135 – 502 mg/l. Fishes, Salmo gairdneri, LOEC 96 hr, 5.5 mg/l. Conditions fish embryos crustaceans, Daphnia EC 50, 48 hr between 135 – 2270 mg/l. Algae, various species, EC 50, 48 hr > 662 mg/l	
	<b>Chronic ecotoxicity:</b> Fishes, Poecilia reticulata, LC50, 14 days 295 mg/l, Fishes Pimephales promelas, NOEC equilibrium 8 days 357 mg/l	
	<b>Mobilty:</b> Air, Henry's Law constant (H) between 200 – 400 Pa.m3/mol. Conditions 20°C. Water evaporation, t1/2 between 0.3 – 48 hrs. Condictions environmental concentration: 1ppb – 1 ppm. Soil sediments, log KOC = 1.68. Result significant evaporation & percolation. Conditions: calculated value.	
	<b>Abiotic degradation:</b> Air indirect photo-oxidation, $t1/2 = 6$ months, conditions: sensitizer OH radical. Water, hydrolysis, $t1/2 > 1.5$ years. Result: non-significant hydrolysis and photolysis. Soil. Result: non-significant hydrolysis.	
	<b>Biotic degradation:</b> Aerobic test: Ready biodegradability/MITI, degradation between 5 – 25% (BOD) 28 days. Result: non-readily biodegradable. Aerobic test: intrinsic biodegradability, degradation = 100%, 28 days, result intrinsically biodegradable. Conditions, adapted culture Aneobic t1/2 = 11 days	
	<b>Potential for bioaccumulation:</b> Bioconcentration: Fishes, Cyprinus carpio, BCF between 6.4 – 40, 42 days. Conditions: test concentration 0.025 ppm Bioconcentration: Log PO/W between 1.25 – 1.3. Conditions: measured value	
	<b>Comments:-</b> Product is not significantly hazardous for the environment as; low toxicity for aquatic organisms, low bioaccumulation potential, considerable volatility, weak persistence (global, half life ca 6 months)	
13. Disposal	Disposal Considerations : Residues should be stored in drums and advice sought from	
considerations	Specialist Waste Disposal Contractors	
	Statutory provisions; local Waste disposal Authority	
14. Transport information	UN Number: 2810	
	Packing Group: III. Class 6.1	
	Proper Shipping Name: Toxic liquid organic N.O.S. Contains Dichloromethane	
	Marine Pollutant: No	
15. Regulatory	15.1 Classification : Carc, Cat 3, Harmful	
Information	15.2 Risk Phrases :	
	15.3 R40 Limited evidence of a carcinogenic effect.	
	15.3 Safety Phrases :	
	<b>15.4 S2.</b> Keep out of reach of Children.	
	S23. Do not breathe fumes.	
	S24/25. Avoid contact with eyes & skin.	
	<b>S36/37.</b> Wear suitable protective clothing & gloves	
	15.5 Specific EC Controls:	
	CHIP 3.1 Regulations 2005 Article 31 REACH	
	15.6 Relevant UK Legislative Controls :	
16. Other information	16.1 Training Advice: n/a	
	<b>16.2 Recommended Uses and Restrictions:</b> For use as a flange and thread sealant	
	16.3 Suppliers of Key Data :	
	Suppliers Safety Data Information.	
	CHIP 3.1 regulations 2005	
	Article 31 REACH	
	Article 31 REACH EH40 amended October 2007 Annex 1(67/548/EEC)	

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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.

G.Brown 29<sup>th</sup> March 2010

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