Version 1

Print Date Dec 2002

SIGMA COATINGS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information		
Trade name	:	7682 SIGMACAP COATING EP BASE (LEAD CONTAINING COLOURS)
Company	:	Sigma Paints Saudi Arabia Ltd. P.O. Box 7509 Dammam 31472
Telephone	:	+966 3 847 3100
Telefax	:	+966 3 847 1734
Emergency telephone number	:	+966 3 857 2394

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Symbol(s):	R-phrase(s)	Concentration
XYLENE	1330-20-7	Xn	R10, R20/21, R38	2.50 - 10.00%
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; KEROSINE-UNSPECIFIED	64742-94-5	Xn, N	R51/53, R65	10.00 - 25.00%
LEAD SULFOCHROMATE YELLOW	1344-37-2	T, N	R61, R33, R40, R50/53, R62	10.00 - 25.00%
1-METHOXY-2-PROPANOL	107-98-2		R10	2.50 - 10.00%

3. HAZARDS IDENTIFICATION



Hazardous components : LEAD SULFOCHROMATE YELLOW

R-phrase(s) : FLAMMABLE. DANGER OF CUMULATIVE EFFECTS. POSSIBLE RISKS OF IRREVERSIBLE EFFECTS. MAY CAUSE HARM TO THE UNBORN CHILD. POSSIBLE RISK OF IMPAIRED FERTILITY.

S-phrase(s): In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). Wear suitable protective clothing and gloves. Avoid exposure - obtain special instructions before use. Do not breathe spray.

In case of insufficient ventilation, wear suitable respiratory equipment.

P-phrase(s) : Contains lead. Must not be used on surfaces liable to be chewed or sucked by children. Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

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4. FIRST AID MEASURES

General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
Eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.
Skin contact	: Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.
Ingestion	: If accidently swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting	:	As the product contains cumbustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Extinguishing media which must not be used for safety reasons	:	Do NOT use water jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.
Environmental precautions	: Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	: Clean with detergents. Avoid solvents. Contain and collect spillage with non- combustible absorbent material, (e.g. sand, earth, diatomaceus earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Additional advice	: Refer to section 15 for specific national regulation.

7. HANDLING AND STORAGE

Safe handling advice	:	Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid conta with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8.



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Advice on protection against	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
Storage	
Requirements for storage areas and containers	Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technocological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).
Advice on common storage	Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Minimum ventilated air quantity for 1 liter of product

TO REACH TLV	:	1,355 m3/l	Basis: MAC (NL)
TO REACH 10 % LEL	:	77 m3/l	
TLV of the product	:	125 mg/m3	Basis: MAC (NL)

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Components with workplace control parameters

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
XYLENE can be absorbed through skincan be absorbed through skin	1330-20-7	210.00 221.00 221.00	50.00 50.00 100.00	MAC (NL) MAC TGG EU ELV TWA EU ELV STEL
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; KEROSINE-UNSPECIFIED	64742-94-5	125.00		ESIG TWA
LEAD SULFOCHROMATE YELLOW can be absorbed through skin	1344-37-2	0.15 0.50 1.00 0.025 0.05 0.01 0.15		EU HCA1 TWA MAC (NL) MAC TGG MAC (NL) MAC-TGG 15 MAC (NL) MAC TGG MAC (NL) MAC-TGG 15 MAC (NL) MAC-TGG 15 MAC (NL) MAC TGG
1-METHOXY-2-PROPANOL can be absorbed through skin	107-98-2	375.00 375.00 375.00	100.00 100.00 150.00	MAC (NL) MAC TGG EU ELV TWA EU ELV STEL
TITANIUM DIOXIDE, RUTILE	13463-67-7	10.00		MAC (NL) MAC TGG
MAGNESIUM SILICATE	14807-96-6	2.00		MAC (NL) MAC TGG
DIPROPYLENEGLYCOL MONOMETHYLETHER can be absorbed through skin	34590-94-8	300.00 308.00	50.00 50.00	MAC (NL) MAC TGG EU ELV TWA

Personal protective equipment

Personal protection advice	: Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.
Respiratory protection	 Apply technical measures to comply with the occupational exposure limits. This should be achieved by a good general extraction and "if practically feasible" by the use of local exhaust ventilation. If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.
Hand protection	: For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact.
Eye protection	: Chemical resistant goggles must be worn.
Skin and body protection	: Personnel should wear protective clothing. Skin should be washed after contact. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear antistatic footwear.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	viscous
Colour	:	various
Odour	:	slight aromatic
Flash point	:	39.11 °C
Lower explosion limit	:	0.98 %(V)
Density	:	1.49 g/cm3
Water solubility	:	immiscible
Viscosity, dynamic	:	900 mPa.s at 23

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Avoid temperatures above 60°C, direct sunlight and contact with sources of heat.
Hazardous reactions	:	Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

°C

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: May cause nausea, abdominal spasms and irritation of the mucous membranes.
Acute inhalation toxicity	: Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.
Skin irritation	: Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin.
Eye contact	: The liquid splashed in the eyes may cause irritation and reversible damage.
Carcinogenicity	: Note: Increased incidences of lung cancer have been identified in the chromate pigment manufacturing industry. Epidemiological studies have shown that where lead chromates alone were manufactured there were no cancer excesses. Animal studies have shown that some insoluble chromates are carcinogenic but the data does not extend to lead chromate pigments. There is no evidence of lung cancer arising from the use of lead chromate containing products. Epidemiological data has shown an association between elevated maternal lead levels and develomental effects in the offspring. Following the introduction of the criteria for Toxic to Reproduction hazard classification the EC has classified all lead compounds as causing developmental toxicity in humans. Lead chromate although of relatively low solubility and bioavailability, is included in the classification. Abdominal pain, nausea, vomiting, diarrhoea. In extreme case it may cause serious damage to health.
Further information	: There is no data available for this product.

SAFETY DATA SHEET according to EC directive 93/112/EC								
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2. ECOLOGICAL								
Further information : There is no data available for this product.								
3. DISPOSAL CO	NSIDERATIONS							
Product	: The product should not be allowed to enter drains, water courses or the soil. Disposal together with normal waste is not allowed. Special disposal required according to local regulations.							
4. TRANSPORT I	NFORMATION							
ADR	: Class : 3 / 31c UN-No : 1263 ADR/RID-Labels : 3 Limited Quantities: Max. per inne Proper shipping name : PAINT	UN-No : 1263 ADR/RID-Labels : 3 Limited Quantities: Max. per inner pack.: 5.00 L - Max. per outer pack.: 45.00 L						
IMDG	Class : 3.3 UN-No : 1263 IMDG labels : 3 EmS : 3-05 MFAG : 310 Marine pollutant : P IMDG Page : 3372 Packaging group : III Proper shipping name : PAINT (LEAD SULFOCHROMATE)							
IATA_C	: Class : 3, Sub-risks : UN-No : 1263 Packaging group : III Proper shipping name : PAINT	UN-No : 1263 Packaging group : III						
Note	ADR : Packagings smaller or equal to 450 l, transport according to section E of marginal 2301.							
5. REGULATORY	INFORMATION							
Remarks	: A hard copy of	: A hard copy of the label is placed in section 3						
	nponents which must be listed on the SULFOCHROMATE YELLOW	label:						
Symbol(s):	: T	Toxic						
R-phrase(s)	: R10 R33 R40 R61 R62	Flammable. Danger of cumulative effects. Possible risks of irreversible effects. May cause harm to the unborn child. Possible risk of impaired fertility.						

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S-phrase(s)	:	S45	In case of accident or if you feel unwell, seek medica advice immediately (show label where possible).
		S36/37	Wear suitable protective clothing and gloves.
		S53	Avoid exposure - obtain special instructions before use.
		S23	Do not breathe spray.
		S38	In case of insufficient ventilation, wear suitable respiratory equipment.
P-phrase(s)	:	P90	Contains lead. Must not be used on surfaces liable to be chewed or sucked by children.
		P95	Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.
VOC	:	388.5 g/l Method: Calculated	
National legislation			
Vlarem	:	Vlarem 2B	
CPR Classification	:	K3 T	
NER Classification	:	NER Class O.1: 0.0 %(m) NER Class O.2: 21.9 %(m) NER Class O.3: 4.2 %(m)	

16. OTHER INFORMATION

XYLENE	R10	Flammable.
	R20/21	Harmful by inhalation and in contact with skin.
	R38	Irritating to skin.
SOLVENT NAPHTHA (PETROLEUM),	R51/53	Toxic to aquatic organisms, may cause long-term adverse
HEAVY AROM. ; KEROSINE-		effects in the aquatic environment.
UNSPECIFIED	R65	Harmful: may cause lung damage if swallowed.
LEAD SULFOCHROMATE YELLOW	R61	May cause harm to the unborn child.
	R33	Danger of cumulative effects.
	R40	Possible risks of irreversible effects.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R62	Possible risk of impaired fertility.
1-METHOXY-2-PROPANOL	R10	Flammable.

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation at the date of issue. The company reserves the right to modify data without notice. Any change in data will normally be followed by issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with our nearest sales office to establish that they are still valid. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. None of the information contained in this safety data sheet can be constructed as a guarantee with regard to the properties of the product described. No liability can be accepted on the basis of this safety data sheet.



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After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.

For further information see technical data sheet number: 7682