

# SIGMA ZINC CHROMATE PRIMER

Version 1

Print Date Dec 2002

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

Product information

Trade name	:	0601 SIGMA ZINC CHROMATE SA 40
Company	:	Sigma Paints Saudi Arabia Ltd
Telephone Telefax	:	PO Box 7509, Dammam 31472 966 3 847 3100 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
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	64742-82-1	Xn, N	R10, R51/53, R65	10.00 - 30.00%

## 3. HAZARDS IDENTIFICATION

**R-phrase(s) :** FLAMMABLE.

**S-phrase(s) :** Do not breathe spray.

In case of insufficient ventilation, wear suitable respiratory equipment.

## 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	<ul> <li>Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Ingestion	: If accidently swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

## 5. FIRE-FIGHTING MEASURES

fighting dense black s 10). Exposure closed contain	et contains cumbustible organic components, fire will produce moke containing hazardous products of combustion (see section e to decomposition products may be a hazard to health. Cool ners exposed to fire with water spray. Do not allow run-off from o enter drains or water courses.
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SAFETY DATA SHEET ad	cord	ng to EC directive 93/112/EC	SIGMA COATINGS
GIGMA ZINC CHROMATE	PF	NMER	
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Special protective equipment for fire-fighters Suitable extinguishing media Extinguishing media which must not be used for safety	: : :	In the event of fire, wear self-contained breat Use water spray, alcohol-resistant foam, dry of Keep containers and surroundings cool with y Do NOT use water jet.	chemical or carbon dioxide.
reasons			

## 6. ACCIDENTAL RELEASE MEASURES

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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	void exceeding of the given occupational exposu se only in area provided with appropriate exhaust ith skin, eyes and clothing. Smoking, eating and e rohibited in the application area. Avoid inhalation ersonal protection see section 8.	ventilation. Avoid contact drinking should be
Advice on protection against fire and explosion	revent the creation of flammable or explosive cor r and avoid vapour concentration higher than the mits. When transferring from one container to and easures and use conductive hose material. No spa sed. The product should only be used in areas from ad other sources of ignition have been excluded. I occumulation of contaminated rags and dry oversp both filters, may result in spontaneous combustion andards, regular safe removal of waste materials oray booth filters will minimise the risks of sponta- her fire hazards.	occupational exposure other apply earthing urking tools should be n which all naked lights No smoking. The ray, particularly in spray n. Good housekeeping and regular maintenance o
Storage		
Requirements for storage areas and containers	bserve label precautions. Prevent unauthorized ac e opened must be carefully resealed and kept upr tore between 5 and 25°C in a dry, well ventilated c heat, ignition and direct sunlight. Solvent vapou ay spread along floors. Vapours may form explose lectrical installations / working materials must co chnocological safety standards. Keep away from noking. Store in accordance with the particular na ection 15).	ight to prevent leakage. place away from sources rs are heavier than air and sive mixtures with air. mply with the sources of ignition - No
Advice on common storage	eep away from oxidising agents and strongly acid	l or alkaline materials.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Minimum ventilated air quantity for 1 liter of product

 TO REACH TLV
 :
 793 m3/l
 Basis: MAC (NL)

 TO REACH 10 % LEL
 :
 87 m3/l
 Basis: MAC (NL)

 TLV of the product
 :
 400 mg/m3
 Basis: MAC (NL)

Components with workplace control parameters

Components	CAS-No.	Value [mg/m <sup>3</sup> ]	Value [ppm]	Basis
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	64742-82-1	400.00 575.00	100.00	ESIG TWA HMAC TWA
NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	64742-82-1	400.00		ESIG TWA
ZINC-ORTHOPHOSPHATE HYDRATE	7779-90-0	5.00		MAC (NL) TWA
CALCIUM CARBONATE	1317-65-3	10.00		MAC (NL) MAC TGG
TITANIUM DIOXIDE, RUTILE	13463-67-7	10.00		MAC (NL) MAC TGG

## Personal protective equipment

Personal protection advice Respiratory protection	<ul> <li>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.</li> <li>Apply technical measures to comply with the occupational exposure limits.</li> </ul>
	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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: viscous
Colour	: various
Odour	: mild aromatic

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Flash point	: 38 °C	
Autoignition temperature	: >210 °C	
Lower explosion limit	: 0.61 %(V)	
Density	: 1.41 g/cm3	
Water solubility	: immiscible	
Viscosity, dynamic	: 900 mPa.s at 23 °C	

## 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. Zinc oxide fumes.

## **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 Further information	<ul><li>The liquid splashed in the eyes may cause irritation and reversible damage.</li><li>There is no data available for this product.</li></ul>	

## 12. ECOLOGICAL INFORMATION

Further	information	

: There is no data available for this product.

## 13. DISPOSAL CONSIDERATIONS

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.

#### **14. TRANSPORT INFORMATION**

**ADR** : Class : 3 / 31c

sion 1	CHROMATE	PRIMER		Print Date Dec 2002
		Labels : 3	nner pack.: 5.00 L - Max. per ou	
IMDG	IMDG labe EmS : 3-05 MFAG : 31 Marine poll IMDG Page Packaging g	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 (WHITE SPIRIT (17,5 % AROMATICS))		
IATA_C	UN-No : 12 Packaging §	Class : 3, Sub-risks : UN-No : 1263 Packaging group : III Proper shipping name : PAINT		
Note	: ADR : Pack	agings smaller or e	qual to 450 l, transport accordin	ng to section E of marginal 2301.
R-phrase(s) S-phrase(s)		: R10 : S23 S38		ent ventilation, wear suitable
-		S38		ent ventilation, wear suitable
VOC		: 332.3 g/l Method: Ca	alculated	
	lation	: Vlarem 4		
National legis Vlarem		: K3		
National legis Vlarem CPR Classifi	cation			
Vlarem		NER Class	O.2: 0.4 %(m)	
Vlarem CPR Classifi	cation	NER Class	O.2: 0.4 %(m)	
Vlarem CPR Classifi NER Classifi	cation RMATION	NER Class	O.2: 0.4 %(m)	

SAFETY DATA SHEET according to EC directive 93/112/EC								
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NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY	R51/53 R65	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.						
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.								
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: 0601								