Version 1

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SIGMA COATINGS

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

Product information	
Trade name	

Trade name	:	0199 SIGMA THINNER 91-99
Company	:	Sigma Paints Saudi Arabia Ltd. P.O. Box 7509 Dammam 31472
Telephone Telefax	:	+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
PETROLEUM DISTILATES C9-C10	064742-95-6	XN/N	R65-5153-10	60 - 100%
1-METHOXY-2-propanol	000107-98-2		R10	5 - 10%
2-METHOXYPRPANOL	001589-47-5	Т	R61-41-3738-10	0 - 1%

# 3. HAZARDS IDENTIFICATION



**R-phrase(s) :** HIGHLY FLAMMABLE. IRRITATING TO EYES.

#### S-phrase(s) :

Keep away from sources of ignition. - No smoking. Avoid contact with the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment.

# 4. FIRST AID MEASURES

give anything by mouth to an unconscious person.
: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.
: Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
: 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.

SAFETY DATA SHEET according to EC directive 93/112/EC	according to EC directive 93/112/EC
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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

:	Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact 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.
:	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 o spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
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# 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 10 % LEL** : 195 m3/l

Components with workplace control parameters

Components	CAS-No.	Value [mg/m <sup>3</sup> ]	Value [ppm]	Basis
N-BUTYL ACETATE	123-86-4	710.00	150.00	MAC (NL) MAC TGG
ETHYL ACETATE	141-78-6	550.00 1,100.00	150.00 300.00	MAC (NL) MAC TGG MAC (NL) MAC-TGG 15
2-METHOXY-1-METHYLETHYL ACETATE can be absorbed through skin	108-65-6	550.00 275.00 550.00	100.00 50.00 100.00	MAC (NL) MAC TGG EU ELV TWA EU ELV STEL

### 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. 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.</li> </ul>
Hand protection	<ul> <li>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.</li> </ul>
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	:	liquid
Colour	:	clear
Odour	:	ester-like
Flash point	:	44 °C
Autoignition temperature	:	>270 °C
Lower explosion limit	:	1.0-11.5 %(V)
Density		0.88g/cm3
Water solubility	:	immiscible
Viscosity, dynamic	:	50 mPa.s at 20 °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.

### 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.
Eve contact	: May cause irreversible eye damage.
Further information	: There is no data available for this product.

## 12. ECOLOGICAL INFORMATION

Further information

: There is no data available for this product.

### **13. DISPOSAL CONSIDERATIONS**

		ng to EC directive 9	SIGMA COATINGS		
MA THINNER	? 91 <b>-</b> 99		•		
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Product	:		ld not be allowed to enter drains, water courses or the soil. with normal waste is not allowed. Special disposal required regulations.		
RANSPORT INFO	RMATION				
ADR :	Class : 3 / 5b UN-No : 1263 ADR/RID-Labels : 3 Limited Quantities: Max. per inner pack.: 5.00 L - Max. per outer pack.: 20.00 L Proper shipping name : PAINT RELATED MATERIAL				
IMDG :	Class : 3.2 UN-No : 1263 IMDG labels : 3 EmS : 3-05 MFAG : 310 IMDG Page : 3268 Packaging group : II Proper shipping name : PAINT RELATED MATERIAL				
IATA_C :	Class : 3, Sub-risk UN-No : 1263				
		II ame : PAINT RELA	ATED MATERIAL		
REGULATORY INF Remarks	Proper shipping na	ame : PAINT RELA	ATED MATERIAL		
	Proper shipping na	ame : PAINT RELA			
Remarks	Proper shipping nation	ame : PAINT RELA A hard copy of th Xi	e label is placed in section 3 Irritant		
<i>Remarks</i> Symbol(s):	Proper shipping national sector of the secto	ame : PAINT RELA A hard copy of th Xi F R10	<i>e label is placed in section 3</i> Irritant Highly flammable Flammable.		
Remarks Symbol(s): R-phrase(s)	Proper shipping nation	ame : PAINT RELA <i>A hard copy of th</i> Xi F R10 R36 S16 S25 S26 S23	e label is placed in section 3 Irritant Highly flammable Flammable. Irritating to eyes. Keep away from sources of ignition No smoking. Avoid contact with the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment.		
Remarks Symbol(s): R-phrase(s) S-phrase(s)	Proper shipping na FORMATION : : : :	ame : PAINT RELA A hard copy of th Xi F R10 R36 S16 S25 S26 S23 S38 910.1 g/l	e label is placed in section 3 Irritant Highly flammable Flammable. Irritating to eyes. Keep away from sources of ignition No smoking. Avoid contact with the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment.		
Remarks Symbol(s): R-phrase(s) S-phrase(s) VOC	Proper shipping na FORMATION : : : :	ame : PAINT RELA A hard copy of th Xi F R10 R36 S16 S25 S26 S23 S38 910.1 g/l	e label is placed in section 3 Irritant Highly flammable Flammable. Irritating to eyes. Keep away from sources of ignition No smoking. Avoid contact with the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment.		
Remarks Symbol(s): R-phrase(s) S-phrase(s) VOC National legislation	Proper shipping na CORMATION : : : : : : :	A hard copy of th Xi F R10 R36 S16 S25 S26 S23 S38 910.1 g/l Method: Calculate	e label is placed in section 3 Irritant Highly flammable Flammable. Irritating to eyes. Keep away from sources of ignition No smoking. Avoid contact with the eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment.		

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### **16. OTHER INFORMATION**

#### **Explanation of R-phrases mentioned in section 2**

N-BUTYL ACETATE	R10 R66 R67	Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
ETHYL ACETATE	R11 R36	Highly flammable. Irritating to eyes.
	R50 R66	
		Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
2-METHOXY-1-METHYLETHYL	R10	Flammable.
ACETATE	R36	Irritating to eyes.
2-methoxypropyl acetate	R61	May cause harm to the unborn child.
2 methoxypropyr dectate	R10	Flammable
	R37	Irritating to respiratory system.

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: 0199