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

**Product information** 

Telephone Telefax

Trade name : 0188 SIGMA THINNER 91-88

Company : Sigma Paints Saudi Arabia Ltd.

P.O. 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  |
|---------------------------------|------------|------------|---------------|----------------|
| N-BUTYL ACETATE                 | 123-86-4   |            | R10, R66, R67 | 10.00 - 25.00% |
| XYLENE                          | 1330-20-7  | Xn         | R10, R20/21,  | 25.00 - 50.00% |
|                                 |            |            | R38           |                |
| ETHYL BENZENE                   | 100-41-4   | F, Xn      | R11, R20      | 10.00 - 25.00% |
| 2-METHOXY-1-METHYLETHYL ACETATE | 108-65-6   | Xi         | R10, R36      | 10.00 - 25.00% |
| 2-methoxypropyl acetate         | 70657-70-4 | T          | R61, R10, R37 | 0.00 - 2.50%   |

#### 3. HAZARDS IDENTIFICATION



### Hazardous components:

**XYLENE** 

### R-phrase(s):

FLAMMABLE.

HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

IRRITATING TO EYES AND SKIN.

### S-phrase(s):

Do not breathe spray.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing and gloves.

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 : Take off all contaminated clothing immediately. Wash skin thoroughly with

soap and water or use recognized skin cleanser. Do NOT use solvents or

thinners.



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**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

Suitable extinguishing media

: In the event of fire, wear self-contained breathing apparatus.

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

Handling

Safe handling advice : 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.

Advice on protection against fire and explosion

: 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.



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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** : 167 m3/l

Components with workplace control parameters

| Components   | CAS-No.   | Value [mg/m <sup>3</sup> ] | Value<br>[ppm]            | Basis   |
|--|-----------|----------------------------|---------------------------|---|
| N-BUTYL ACETATE  | 123-86-4  | 710.00                     | 150.00                    | MAC (NL) MAC TGG                              |
| XYLENE can be absorbed through skincan be absorbed through skin              | 1330-20-7 | 210.00<br>221.00<br>221.00 | 50.00<br>50.00<br>100.00  | MAC (NL) MAC TGG<br>EU ELV TWA<br>EU ELV STEL |
| ETHYL BENZENE<br>can be absorbed through skincan be absorbed<br>through skin | 100-41-4  | 215.00<br>442.00<br>442.00 | 50.00<br>100.00<br>200.00 | MAC (NL) MAC TGG<br>EU ELV TWA<br>EU ELV STEL |
| 2-METHOXY-1-METHYLETHYL ACETATE can be absorbed through skin                 | 108-65-6  | 550.00<br>275.00<br>550.00 | 100.00<br>50.00<br>100.00 | MAC (NL) MAC TGG<br>EU ELV TWA<br>EU ELV STEL |

### 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.

**Eve 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 characteristic

Flash point 28 °C

**Autoignition temperature** :  $> 270 \, ^{\circ}\text{C}$ 

Lower explosion limit : 1.1 %(V)

0.89 g/cm3 **Density** 

immiscible Water solubility

Viscosity, dynamic 50 mPa.s at 25 °C

### 10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid temperatures above 60°C, direct sunlight and contact with sources of

Keep away from oxidising agents, strongly alkaline and strongly acid **Hazardous reactions** 

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

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.

May cause irreversible eye damage. Eve contact

**Further information** : There is no data available for this product.

# 12. ECOLOGICAL INFORMATION

**Further information** : There is no data available for this product.



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#### 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

UN-No: 1263 ADR/RID-Labels: 3

Limited Quantities: Max. per inner pack.: 5.00 L - Max. per outer pack.: 45.00 L

Proper shipping name: PAINT RELATED MATERIAL

**IMDG** : Class : 3.3

UN-No: 1263 IMDG labels: 3 EmS: 3-05 MFAG: 310 IMDG Page: 3372 Packaging group: III

Proper shipping name: PAINT RELATED MATERIAL

IATA\_C : Class : 3, Sub-risks :

UN-No: 1263 Packaging group: III

Proper shipping name: PAINT RELATED MATERIAL

### 15. REGULATORY INFORMATION

Remarks : A hard copy of the label is placed in section 3

Hazardous components which must be listed on the label:

XYLENE

Symbol(s): : Xn Harmful

**R-phrase(s)** : R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36/38 Irritating to eyes and skin.

S-phrase(s) : S23 Do not breathe spray.

S26 In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable

respiratory equipment.

**VOC** : 895 g/l

Method: Calculated

National legislation

Vlarem : Vlarem 2A

CPR Classification : K2 Xn



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**NER Classification** : NER Class O.1: 0.0 %(m)

NER Class O.2: 75.1 %(m) NER Class O.3: 25 %(m)

### 16. OTHER INFORMATION

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

| N-BUTYL ACETATE                    | R10<br>R66<br>R67    | Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. |
|------------------------------------|----------------------|--|
| XYLENE                             | R10<br>R20/21<br>R38 | Flammable.<br>Harmful by inhalation and in contact with skin.<br>Irritating to skin.                         |
| ETHYL BENZENE                      | R11<br>R20           | Highly flammable.<br>Harmful by inhalation.  |
| 2-METHOXY-1-METHYLETHYL<br>ACETATE | R10<br>R36           | Flammable.<br>Irritating to eyes.  |
| 2-methoxypropyl acetate            | R61<br>R10<br>R37    | May cause harm to the unborn child.<br>Flammable.<br>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: 0188