

**Safety Data Sheet  
NUMIX 2K HARDENER STANDARD**

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**SECTION 1: Identification**

**1.1 Product identifier**

Product name NUMIX 2K HARDENER STANDARD

**1.2 Supplier's details**

Name National Paints Factories Co. Limited  
Address Maliha Road Industrial Area 13  
Sharjah  
5822 Sharjah Sharjah  
United Arab Emirates

Telephone +971 6 5130000  
Fax +971 6 5340222  
email npfcl@nationalpaints.com

**1.3 Emergency phone number(s)**

+971 6 5130000

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**SECTION 2: Hazard identification**

**2.1 Classification of the substance or mixture**

**GHS classification in accordance with: OSHA (29 CFR 1910.1200)**

- Flammable liquids, Cat. 3
- Toxic to reproduction, Cat. 2
- Sensitization, skin, Cat. 1
- Acute toxicity, inhalation, Cat. 4

**2.2 GHS label elements, including precautionary statements**

**Pictogram**



**Hazard statement(s)**

H226 Flammable liquid and vapor  
H317 May cause an allergic skin reaction  
H361 Suspected of damaging fertility or the unborn child [effect, route]  
H332 Harmful if inhaled

**Precautionary statement(s)**

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|                |                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------|
| P201           | Obtain special instructions before use.                                                             |
| P202           | Do not handle until all safety precautions have been read and understood.                           |
| P210           | Keep away from heat/sparks/open flames/hot surfaces. No smoking.                                    |
| P233           | Keep container tightly closed.                                                                      |
| P240           | Ground/bond container and receiving equipment.                                                      |
| P241           | Use explosion-proof electrical/ventilating/lighting/equipment.                                      |
| P242           | Use only non-sparking tools.                                                                        |
| P243           | Take precautionary measures against static discharge.                                               |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                    |
| P272           | Contaminated work clothing must not be allowed out of the workplace.                                |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                          |
| P302+P352      | IF ON SKIN: Wash with plenty of water.                                                              |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.                                              |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                    |
| P363           | Wash contaminated clothing before reuse.                                                            |
| P403+P235      | Store in a well-ventilated place. Keep cool.                                                        |
| P405           | Store locked up.                                                                                    |
| P271           | Use only outdoors or in a well-ventilated area.                                                     |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                          |
| P312           | Call a POISON CENTER/doctor if you feel unwell.                                                     |

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## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

#### Hazardous components

##### 1. Hexane, 1,6-diisocyanato-, homopolymer

|               |                        |
|---------------|------------------------|
| Concentration | 30.5 - 35.5 % (weight) |
| CAS no.       | 28182-81-2             |

##### 2. 2-methoxy-1-methylethyl acetate

|               |                    |
|---------------|--------------------|
| Concentration | 30 - 35 % (weight) |
| EC no.        | 203-603-9          |
| CAS no.       | 108-65-6           |
| Index no.     | 607-195-00-7       |

- Flammable liquids, Cat. 3

|      |                            |
|------|----------------------------|
| H226 | Flammable liquid and vapor |
|------|----------------------------|

##### 3. N-Butyl acetate

|               |                    |
|---------------|--------------------|
| Concentration | 10 - 15 % (weight) |
| EC no.        | 204-658-1          |
| CAS no.       | 123-86-4           |
| Index no.     | 607-025-00-1       |

- Flammable liquids, Cat. 3

- Specific target organ toxicity (single exposure), Cat. 3

|      |                                   |
|------|-----------------------------------|
| H226 | Flammable liquid and vapor        |
| H336 | May cause drowsiness or dizziness |

##### 4. 2-Ethoxyethyl acetate

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|               |                   |
|---------------|-------------------|
| Concentration | 5 - 10 % (weight) |
| EC no.        | 203-839-2         |
| CAS no.       | 111-15-9          |
| Index no.     | 607-037-00-7      |

- Flammable liquids, Cat. 3
- Toxic to reproduction, Cat. 1B
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Acute toxicity, oral, Cat. 4

|      |                              |
|------|------------------------------|
| H226 | Flammable liquid and vapor   |
| H302 | Harmful if swallowed         |
| H312 | Harmful in contact with skin |
| H332 | Harmful if inhaled           |

#### 5. XYLENES (MIXED)

|               |                  |
|---------------|------------------|
| Concentration | 5 - 7 % (weight) |
| EC no.        | 215-535-7        |
| CAS no.       | 1330-20-7        |
| Index no.     | 601-022-00-9     |

- Flammable liquids, Cat. 3
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Skin corrosion/irritation, Cat. 2

|      |                              |
|------|------------------------------|
| H226 | Flammable liquid and vapor   |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation       |
| H332 | Harmful if inhaled           |

#### 6. Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer

|               |                  |
|---------------|------------------|
| Concentration | 2 - 5 % (weight) |
| CAS no.       | 53880-05-0       |

#### 7. Xylene range aromatic solvent

|               |                  |
|---------------|------------------|
| Concentration | 2 - 5 % (weight) |
| CAS no.       | 64742-95-6       |

#### 8. 4-isocyanatosulphonyltoluene

|               |                  |
|---------------|------------------|
| Concentration | 1 - 1 % (weight) |
| EC no.        | 223-810-8        |
| CAS no.       | 4083-64-1        |
| Index no.     | 615-012-00-7     |

- Specific target organ toxicity (single exposure), Cat. 3
- Skin corrosion/irritation, Cat. 2
- Serious eye damage/eye irritation, Cat. 2
- Sensitization, respiratory, Cat. 1

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| H315 | Causes skin irritation                                                    |
| H319 | Causes serious eye irritation                                             |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation                                          |

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## SECTION 4: First-aid measures

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### 4.1 Description of necessary first-aid measures

|                         |                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.                   |
| If inhaled              | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.             |
| In case of skin contact | Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.                           |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                                      |
| If swallowed            | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |

### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

### 5.2 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

#### Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **1. 2-METHOXYETHYL ACETATE (CAS: 110-49-6)**

PEL (Inhalation): 25 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 120 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 0.1 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### **2. N-Butyl acetate (CAS: 123-86-4 EC: 204-658-1)**

PEL (Inhalation): 150 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 710 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 150 ppm, (ST) 200 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 150 ppm, (ST) 200 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

TLV® (Inhalation): 150 ppm, (ST) 200 ppm; USA (ACGIH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

STEL (Inhalation): 200 ppm

950 mg/m<sup>3</sup> (Cal/OSHA)

California permissible exposure limits for chemical contaminants  
(Title 8, Article 107)

PEL (Inhalation): 150 ppm

710 mg/m<sup>3</sup>

California permissible exposure limits for chemical contaminants  
(Title 8, Article 107)

#### **3. 2-Ethoxyethyl acetate (CAS: 111-15-9)**

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 540 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 0.5 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### **4. XYLENES (MIXED) (CAS: 1330-20-7)**

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 435 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 100 ppm, (ST) 150 ppm, (C) 300 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 100 ppm, (ST) 150 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

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### 8.2 Individual protection measures, such as personal protective equipment (PPE)

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Thermal hazards

No data available

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| Appearance/form (physical state, color, etc.) | Fluid                                        |
| Odor                                          | Characteristic                               |
| Odor threshold                                | Not determined                               |
| pH                                            | Not determined                               |
| Melting point/freezing point                  | Not determined                               |
| Initial boiling point and boiling range       | 124°C                                        |
| Flash point                                   | 25°C                                         |
| Evaporation rate                              | Not determined                               |
| Flammability (solid, gas)                     | Not Applicable                               |
| Upper/lower flammability limits               | Not determined                               |
| Upper/lower explosive limits                  | Not determined                               |
| Vapor pressure                                | Not determined                               |
| Vapor density                                 | Not determined                               |
| Relative density                              | Not determined                               |
| Solubility(ies)                               | Not determined                               |
| Partition coefficient: n-octanol/water        | Not miscible or difficult to mix with water. |
| Auto-ignition temperature                     | Not determined                               |
| Decomposition temperature                     | Not determined                               |
| Viscosity                                     | Not determined                               |
| Explosive properties                          | Not determined                               |
| Oxidizing properties                          | Not determined                               |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Conditions to avoid

Heat, flames and sparks.

### 10.4 Incompatible materials

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N-Butyl acetate: Strong oxidizing agents, Strong reducing agents, Strong bases

### 10.5 Hazardous decomposition products

N-Butyl acetate: Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - No data available  
In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

LD/LC50 values relevant for classification:

111-15-9 2-ethoxyethyl acetate

Oral LD50 -3900 mg/kg (rat)

Dermal LD50 10300 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 >6800 mg/kg (rat)

Dermal LD50 >3400 mg/kg (rab)

Inhalative LC50/4 h >10.2 mg/l (rat)

#### Skin corrosion/irritation

No irritating effect.

#### Serious eye damage/irritation

No irritating effect.

#### Respiratory or skin sensitization

Sensitisation possible through skin contact.

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

OSHA specifically regulated carcinogen

#### Reproductive toxicity

No data available

#### STOT-single exposure

No data available

#### STOT-repeated exposure

No data available

#### Aspiration hazard

No data available

#### Additional information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12: Ecological information

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## NUMIX 2K HARDENER STANDARD

### Toxicity

No data available on product

### Persistence and degradability

No data available on product

### Bioaccumulative potential

No data available on product

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### Disposal of the product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Disposal of contaminated packaging

Disposal must be made according to official regulations.

### Sewage disposal

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN1263

Class: 3 Flammable liquids.

Packing Group: III

Proper Shipping Name: 1263 PAINT

Reportable quantity (RQ): 5L

Marine pollutant:

Poison inhalation hazard:

### IMDG

UN Number: UN1263

Class: 3 Flammable liquids.

Packing Group: III

EMS Number: F-E,S-E

Proper Shipping Name: 1263 PAINT

### IATA

UN Number: UN1263

Class: 3 Flammable liquids.

Packing Group: III

Proper Shipping Name: 1263 PAINT

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

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## NUMIX 2K HARDENER STANDARD

### Massachusetts Right To Know Components

Chemical name: Polymeric diphenylmethane diisocyanate  
CAS number: 9016-87-9

### New Jersey Right To Know Components

Common name: METHYLENE DIPHENYL DIISOCYANATE (POLYMERIC)  
CAS number: 9016-87-9

### New Jersey Right To Know Components

Common name: 2-METHOXYETHYL ACETATE  
CAS number: 110-49-6

### Pennsylvania Right To Know Components

Chemical name: Ethanol, 2-methoxy-, acetate  
CAS number: 110-49-6

### California Prop. 65 components

Chemical name: 2-METHOXYETHYL ACETATE  
CAS number: 110-49-6  
01/01/1993 - Developmental toxicity  
01/01/1993 - Male reproductive toxicity

### Massachusetts Right To Know Components

n-Butyl acetate  
CAS number: 123-86-4

### New Jersey Right To Know Components

n-Butyl acetate  
CAS number: 123-86-4

### Pennsylvania Right To Know Components

n-Butyl acetate  
CAS number: 123-86-4

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SARA 311/312 Hazards

Fire Hazard

### New Jersey Right To Know Components

Common name: 2-ETHOXYETHYL ACETATE  
CAS number: 111-15-9

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### Pennsylvania Right To Know Components

Chemical name: Ethanol, 2-ethoxy-, acetate  
CAS number: 111-15-9

### California Prop. 65 components

Chemical name: 2-Ethoxyethyl acetate  
CAS number: 111-15-9  
01/01/1993 - Developmental toxicity  
01/01/1993 - Male reproductive toxicity

### Massachusetts Right To Know Components

Chemical name: Xylene (mixed isomers)  
CAS number: 1330-20-7

### New Jersey Right To Know Components

Common name: XYLENES  
CAS number: 1330-20-7

### Pennsylvania Right To Know Components

Chemical name: Benzene, dimethyl-  
CAS number: 1330-20-7

### Massachusetts Right To Know Components

Chemical name: Isophorone diisocyanate  
CAS number: 4098-71-9

### New Jersey Right To Know Components

Common name: ISOPHORONE DIISOCYANATE  
CAS number: 4098-71-9

### Pennsylvania Right To Know Components

Chemical name: Cyclohexane, 5-isocyanato-1-([isocyanatomethyl]-1,3,3-trimethyl-  
CAS number: 4098-71-9

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## SECTION 16: Other information

### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall National Paints Factories Co. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if National Paints Factories Co. Ltd. has been advised of the possibility of such damages.