

**Safety Data Sheet
NUMIX 2K HIGH SOLID FAST DRY CLEARCOAT HARDENER**

SECTION 1: Identification

1.1 Product identifier

Product name NUMIX 2K HIGH SOLID FAST DRY CLEARCOAT HARDENER

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

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

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Precautionary statement(s)

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.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Hazardous components

1. 2-Ethoxyethyl acetate

Concentration	30 - 40 % (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
H360FD	

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

Concentration	30 - 40 % (weight)
CAS no.	28182-81-2

3. XYLENES (MIXED)

Concentration	1 - 5 % (weight)
EC no.	215-535-7
CAS no.	1330-20-7
Index no.	601-022-00-9

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- 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

4. ETHYLBENZENE

Concentration	1 - 5 % (weight)
EC no.	202-849-4
CAS no.	100-41-4
Index no.	601-023-00-4

- Flammable liquids, Cat. 2
- Acute toxicity, inhalation, Cat. 4
- Aspiration hazard, Cat. 1
- Specific target organ toxicity (repeated exposure), Cat. 2

H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H373	May cause damage to organs [organs] through prolonged or repeated exposure [route]

5. 4-isocyanatosulphonyltoluene

Concentration	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

6. HEXAMETHYLENE DIISOCYANATE

Concentration	1 % (weight)
EC no.	212-485-8
CAS no.	822-06-0
Index no.	615-011-00-1

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

H315	Causes skin irritation
H317	May cause an allergic skin reaction

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H319	Causes serious eye irritation
H331	Toxic if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

SECTION 4: First-aid measures

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

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.

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.

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

PEL (Inhalation): 120 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 0.1 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 540 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 0.5 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

3. XYLENES (MIXED) (CAS: 1330-20-7)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 435 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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

OSHA Annotated Table Z-1, www.osha.gov

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

OSHA Annotated Table Z-1, www.osha.gov

4. ETHYLBENZENE (CAS: 100-41-4)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 435 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 100 ppm, (ST) 125 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL (Inhalation): 100 ppm, (ST) 125 ppm (NIOSH)

OSHA Annotated Table Z-1, 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.

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

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

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

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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

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.

SECTION 12: Ecological information

Toxicity

No data available on product

Persistence and degradability

No data available on product

Bioaccumulative potential

No data available on product

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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

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.

SECTION 14: Transport information

DOT (US)

UN Number: UN1263

Class: 3 Flammable liquids.

Packing Group: III

Proper Shipping Name: UN1263 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: UN1263 PAINT

IATA

UN Number: UN1263

Class: 3 Flammable liquids.

Packing Group: III

Proper Shipping Name: UN1263 PAINT

SECTION 15: Regulatory information

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

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

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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

New Jersey Right To Know Components

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

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

Massachusetts Right To Know Components

Chemical name: Ethylbenzene
CAS number: 100-41-4

New Jersey Right To Know Components

Common name: ETHYL BENZENE
CAS number: 100-41-4

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Pennsylvania Right To Know Components

Chemical name: Benzene, ethyl-

CAS number: 100-41-4

California Prop. 65 components

Chemical name: ETHYLBENZENE

CAS number: 100-41-4

11/06/2004 - Cancer

Massachusetts Right To Know Components

Chemical name: Hexamethylene-1,6-diisocyanate

CAS number: 822-06-0

New Jersey Right To Know Components

Common name: HEXAMETHYLENE DIISOCYANATE

CAS number: 822-06-0

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.