



# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **NAX 280HP 2K VELOCITY HARDENER**

Intended use : Activator for paint

Manufacture :

Company name: NIPPON PAINT(Thailand) CO.,LTD

Address : 101 MOO 3 SOI SUKSAWAT 76,SUKSAWAT ROAD,  
T.BANGCHAK A.PRAPRADAENG,SAMUTPRAKARN 10130

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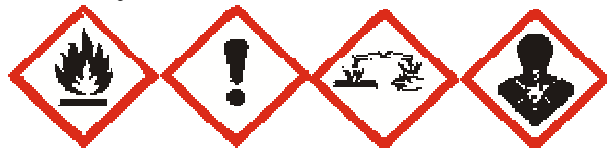
## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (%)</u>
HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER	28182-81-2	60 - 65
HEXAMETHYLENE-1,6-DIISOCYANATE	822-06-0	< 0.1
BUTYL ACETATE	123-86-4	40 - 45

## 3. HAZARDS IDENTIFICATION

Harzard Symbols



Signal Words **DANGER**

Hazard statements

Flammable liquid and vapour (Category 3)

Harmful if swallowed & inhaled(vapour)(Catergory 4)

Causes severe skin burns (Category 1)

Causes eye irritation (Category 2B)

May cause allergy or asthmatic symptoms or breathing difficulties if inhaled(Category 1)

Causes damage to lung and respiratory system(Category 1)

May causes damage to lung and respiratory system) throughprolonged orrepeated exposure(Category 2)

Harmful to aquatic life(Category 3)



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#### 4. FIRST-AID MEASURES

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- IF SKIN CONTACT : Remove contaminated clothing immediately and Wash off with plenty of water.  
If skin irritation : Get medical advice/attention.
- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.
- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/ physician if you feel unwell.  
Get medical advice/attention if you feel unwell.
- IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting.

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#### 5. FIRE-FIGHTING MEASURES

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Do NOT use water jet.

Use water spray or dry chemicals.

Keep adjacent receptacles cool with copious quantities of water.

suitable fire-extinguishing media

water fog.  CO<sub>2</sub>  foam  dry chemicals  dry sand

Note : Fire will produce dense black smoke.

Decomposition products may be hazardous to health.

Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water.

Do not allow run off water and contaminants from fire fighting to enter drains or watercourses.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Avoid all sources of ignition (e.g.naked lights, unprotected light bulbs, electric handtools).

Ventilate the area and avoid breathing vapors.

Wear protective clothing and self-contained breathing apparatus when dealing with spillage or fire.

Collect spillage, where practicable, for safe disposal.

Should be disposed of wastes and empty containers in accordance with regulations made under the control of pollution acts and the environmental protection acts.

Collect spillage, where practicable, using absorbent material, and dispose of spillage on the floor in a safe manner.

Keep away from drains, surface-and ground-water and soil.

Do not allow spills to enter drains or water courses.



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## 7. HANDLING AND STORAGE

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Store in a well-ventilated place.

Keep container tightly closed.Store locked up.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Storage temperature : Store bellow 40 deg.C. (104deg.F.)

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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**Wear protective gloves/eye protection/face protection.**

Exposure limit :

<u>Ingredient Name</u>	<u>ACGIH</u>		<u>OSHA</u>	
	TWA	STEL	TWA	STEL
BUTYL ACETATE	150 ppm	200 ppm	150 ppm	200 ppm
HEXAMETHYLENE-1,6-DIISOCYANATE	0.005 ppm	-	-	-

Personal protection :

Respiratory protection : Wear NIOSH-Approved appropriate equipment.

Hand protection : Wear imprevious gloves.

Eye protection : Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Skin protection : Wear chemical resistant clothing such as gloves, apron, boots or whold bodysuits made from neoprene, as appropriate.

Environmental exposure control : Do NOT let this product enter the environment

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	: Liquid
Color	: Coloress
Odor	: Solvent odor
Boiling point (range)	: N/A
Flash point	: 27 °C
Lower explosion limit	: N/A
Upper explosion limit	: N/A
Specific density	: 0.98/ 25 °C
Vapor density	: Heavier than air
Solubility in water	: none or poor in water
Volatile volume	: 68%

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## 10. STABILITY AND REACTIVITY

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Nippon Paint (Thailand)Co.,Ltd.

Stability	:	Stable under recommended storage and handing conditions (see section 7). When exposed to high temperature, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.
Hazardous reaction	:	Hazardous reaction will not occur.
Condition to avoid	:	Avoid heating temperatures above 30 deg.C.
Materials to avoid	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.
Hazardous decomposition products:	:	The products decomposed on heating producing their oxide or monomers.

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## 11. TOXICOLOGICAL INFORMATION

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There are no data available on the product itself.

Toxicological information of ingredients :

acute toxicity :

LD<sub>50</sub>(oral, rat)=1450(mg/kg)

LD<sub>50</sub>(dermal, rabbit)=4500(g/kg)

LD<sub>50</sub>(inhale, rat)=11.30(mg/L)

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## 12. ECOLOGICAL INFORMATION

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acute toxicity :

Fish : L(E)C 50 > 100 mg/L

Crustacea : L(E)C 50 > 100 mg/L

Algae : L(E)C 50 > 100 mg/L

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## 13. DISPOSAL CONSIDERATIONS

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Avoid release to the environment

Dispose of contents/container to authorized companies ... (in accordance with local/regional/national/international regulation).

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## 14. TRANSPORT INFORMATION

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Nippon Paint (Thailand)Co.,Ltd.

UN regulation shipping name

: PAINT (including paing, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

UN/ID No. : 1263

Class : 3

Packing group : III

IMDG CODE : class 3.3 Intermediate flashpoint group.

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## 15. REGULATORY INFORMATION

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Please refer to any other national measures that may be relevant.

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## 16. OTHER INFORMATION

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The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.

REFERENCE : 1. United States National Library of Medicine: ChemIDplus Lite (ID PLUS)  
<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>

2. New Jersey Department of Health (DOH)  
<http://web.doh.state.nj.us/rtkhsfs/qrsearch.aspx>.

3. International Uniform Chemical Information Database (IUCLID)  
<http://ecb.jrc.ec.europa.eu/esis/index.php?PGM=dat>

4. SIGMA-ALDRICH  
<http://www.sigmaaldrich.com/MSDS/MSDS/DisplayMSDSPage.do?>

5. CHEMTRACK  
<http://www.chemtrack.org/Chem-Result.asp>

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