



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **NAX SUPERIO 221 2K 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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Emergency phone No.

2. HAZARDS IDENTIFICATION

GHS Classification

- Flammable liquids, Category 3
- Acute toxicity : Oral, Category 5
Dermal, Category 5
Inhalation, Category 4
- Skin corrosion/ irritation, Category 2
- Serious eye damage/ eye irritation, Category 2A
- Skin sensitizer, Category 1B
- Specific target organ toxicity(single exposure), Category 3
- Specific target organ toxicity(repeated exposure), Category 1
- Aspiration hazard, Category 1
- Aquatic toxicity (Acute), Category 3

GHS Label elements

Hardzard Symbols



Signal Words

Danger

Hazard statements

- H226 Flammable liquid and vapour
- H303 May be harmful if swallowed
- H313 May be harmful in contact with skin
- H332 Harmful if inhaled (vapour)
- H315 Causes skin irritation
- H319 Causes serious eye irritation



- H317 May cause an allergic skin reaction
- H335 May cause respiratory irritation
- H372 Causes damage to respiratory organs and nervous system
-through prolonged or repeated exposure
- H304 May be fatal if swallowed and enters airways
- H402 Harmful to aquatic life

Precautionary statements

Prevention

- 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
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hand, mouth, etc, thoroughly after handling
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment
- P280 Wear protective gloves/eye protection/face protection

Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + P352 IF ON SKIN:Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN: Remove/Take off immediately all contaminated clothing.Rinse skin with water/shower.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER/doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (See on First Aid Measures)
- P331 Do NOT induce vomiting.
- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use appropriate media for extinction.



Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place,Keep cool.
P405 Store locked up.

Disposal

- P501 Dispose of content/container to appropriate waste site or reclaimer in accordance with local/regional/nation or national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (%)</u>
XYLENE	1330-20-7	20 - 25
BUTYL ACETATE	123-86-4	35 - 40
HEXAMETHYLENE-1,6-	28182-81-2	45 - 50
DIISOCYANATE HOMOPOLYMER		
HEXAMETHYLENE-1,6-	822-06-0	< 0.1
DIISOCYANATE		

4. FIRST-AID MEASURES

- 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.

5. FIRE-FIGHTING MEASURES

- 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. [X] CO₂ [X] foam [X] 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.



6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.)

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Wear protective gloves/eye protection/face protection.

Exposure limit :

<u>Ingredient Name</u>	<u>ACGIH</u>		<u>OSHA</u>	
	TWA	STEL	TWA	STEL
XYLENE	100 ppm	150 ppm	100 ppm	-
BUTYL ACETATE	150 ppm	-	150 ppm	-
HEXAMETHYLENE-1,6-DIISOCYANATE	0.005 ppm	-	-	-

Personal protection :

Respiratory protection : Wear NIOSH-Approved appropriate equipment.
Hand protection : Wear impervious 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



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Color	:	Colorless
Odor	:	Solvent odor
Boiling point (range)	:	N/A
Flash point	:	28 °C
Lower explosion limit	:	N/A
Upper explosion limit	:	N/A
Specific density	:	0.95 / 25 °C
Vapor density	:	Heavier than air
Solubility in water	:	none or poor in water
Volatile volume	:	62 %

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage and handling 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.

11. TOXICOLOGICAL INFORMATION

There are no data available on the product itself.

Toxicological information of ingredients :

acute toxicity :

LD₅₀(oral, rat) = 2,898 mg/kg

LD₅₀(dermal, rabbit) = 2,925 mg/kg

LD₅₀(inhale, rat) = 13.20 mg/L

12. ECOLOGICAL INFORMATION

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



13. DISPOSAL CONSIDERATIONS

Avoid release to the environment

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

14. TRANSPORT INFORMATION

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.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

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>
