



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **NAX CRYSTAL 905 2K HARDENER**
Intended use : Hardener for professional use
Manufacture :
Company name: NIPPON PAINT(Thailand) CO.,LTD
Address : 101 MOO 3 SOI SUKSAWAT 76,SUKSAWAT ROAD,
T.BANGCHAK A.PRAPRADAENG,SAMUTPRAKARN 10130
Telephone No. : +66(0)2463-0032
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (%)</u>
BUTYL ACETATE	123-86-4	35 - 40
METHYL-N-AMYL KETONE	110-43-0	10 - 15
ETHYL-3-ETHOXY PROPIONATE	763-69-9	5 - 10
BUTYL GLYCOL ACETATE	112-07-2	5 - 10
HEXAMETHYLENE-1,6-	28182-81-2	45 - 50
DIISOCYANATE HOMOPOLYMER		
HEXAMETHYLENE-1,6-	822-06-0	< 0.1
DIISOCYANATE		

3. HAZARDS IDENTIFICATION

Hazard Symbols



Signal Words **Danger**

Hazard statements

Flammable liquid and vapor(Category 3)
May be harmful if swallowed and in contact with skin(Category 5)
Harmful if inhaled(gas&vapour)(Category 2)
Causes severe skin burns and eye damage(Category 1)
May causes allergy or asthma symptoms or breathing difficulties if inhaled(Category 1)
May cause an allergic skin reaction(Category 1)
Causes damage to lung , spleen and kidney (Category 1)
May causes damage to lung through prolonged or repeated exposure(Category 2)
Toxic to aquatic life(Category 2)



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. CO₂ 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.

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
BUTYL ACETATE	150 ppm	200 ppm	150 ppm	200 ppm
METHYL AMYL KETONE	50 ppm	-	100 ppm	-
HEXAMETHYLENE-1,6-DIISOCYANATE	0.005 ppm	-	-	-
ETHYL-3-ETHOXY PROPIONATE	50 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 : Do NOT let this product enter the environment control

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Color	:	colorless
Odor	:	Solvent odor
Boiling point (range)	:	N/A
Flash point	:	27 °C (n-Butyl acetate)
Lower explosion limit	:	1.00%
Upper explosion limit	:	7.00%
Specific density	:	0.95 / 25 °C
Vapor density	:	Heavier than air
Solubility in water	:	none or poor in water
Volatile volume	:	64%



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)=4240(mg/kg)

LD₅₀(dermal, rabbit)=5900(mg/kg)

LD₅₀(inhale, rat)=18.50(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

The products should not be allowed to enter drains and watercourses.

All notification, clean-up and disposal should be carried out in accordance with federal, state and local regulations. Preferred method of waste disposal are incineration or biological treatment in federal/state approved facility. Wastes and empty containers should be disposed of in accordance with regulations made under the control or pollution acts and the environmental protection acts.

Empty containers should be recycled or disposed of through an approved waste management facility.

It is strongly advised not to let the chemical enter into the environment.



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 3.2 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/qsearch.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>
