

# MATERIAL SAFETY DATA SHEET

PRODUCT : DYS-2000 WS (UL NAME : DYS-2000M/H-AC) Page : 1 of 5  
Product Code : version 5 Date : Oct/01/2010

## 1. CHEMICAL PRODUCT AND IDENTIFICATION

**Name of product** : DYS-2000 WS [WS-1,WS-2,WS-2(L), WS-L, WS-LE ]  
(UL NAME : DYS-2000M-AC/DYS-2000H-AC)  
**General chemical properties** : Excellent adhesion, heat resistance and Printing Performace as solder resist for PCB  
**Hazard classification** : Irritative material  
**Use** : Solder resist for PCB  
**Company name** : DONG YANG INK CO., LTD.  
**Address** : 338-6, KAGOK-RI JINWI-MYUN, PYUNGTAEK-SI, KYUNGKI-DO, KOREA  
**Writing part** : Research Institute of DONG YANG INK CO., LTD.  
**Telephone** : + 82-031-6609-200  
**Emergency telephone number** : + 82-031-6609-260

## 2. COMPOSITION

	INGREDIENTS	CAS. No	CONTENS(%)
Main Agent	Modified Epoxy Acrylated Resin	---	50 - 60%
	Diethylene Glycol Monoethyl Ether Acetate	112-15-2	1 - 2%
	Heavy Aromatic Solvent Naphtha	64742-94-5	10 - 15%
	C.I. Pigment White 6	13463-67-7	10 - 15%
Hardener	Epoxy Resin	---	10 - 12%
	Heavy Aromatic Solvent Naphtha	64742-94-5	4 - 6%
	Acrylic Monomer	---	6 - 8%

## 3. HAZARD IDENTIFICATION

**In case of emergency** : Wash with plenty of soap and water  
**Risk information** : N.E  
**Latency effect for health**  
] **Eye contact** : Slight irritation  
] **Skin contact** : May irritate by repetitve or continuous contactiog  
] **Inhalation** : May cause headache by inhaling long time without ventillator  
] **Ingestion** : May cause vomiting, gastroenteric disorder  
] **Chronic** : N.E

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## 4. FIRST AID PROCEDURES

Eye contact : Rinse immediately with water and seek medical attention  
Skin contact : Rinse immediately with water for at least 15minutes after taking off working clothes  
Inhalation : Move to fresh air  
Ingestion : Obtain medical advice immediately  
Warning from doctor : No specific antidote exists  
Receive immediate medical attention according to the condition of a patient. If it caught a disease for skin and eye, so much grows worse by effect of different things

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## 5. FIRE FIGHTING PROCEDURES

Flash point : N.E  
Spontaneous combustion point : N.E  
Min. flash point/Max. flash point: N.E / N.E  
Classification and provision : N.A  
for the fire services act  
Suitable extinguishing media : Sodium carbonate, Carbon tetra chloride. Dry powder  
Extinguishment/Extinguisher : Non inhalation vapor, back against the wind  
Container cooling as water spray  
Check the spread of fire, extinguish the fire with suitable extinguisher  
Caution! Exposure for heat, spark and ignitor are possible of fire or explosion  
Destruction by fire : Toxic gases or vapors may be generated  
Unsuitable extinguishing media : N.E

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## 6. ACCIDENTAL RELEASE PROCEDURES

Personal precaution : Avoid ignition sources, contact with skin, eyes and clothing  
Environmental precaution : Waste matters are controlled by only company have a license  
Methods for cleaning or removing : In this case leak a small quantity of paste, wipe out a stain using dustcloth or absorb. Dispose in accordance with local regulations  
In this case leak a great quantity of paste, take in waste into a container using Scoop. Dispose in accordance with local regulations

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## 7. STORAGE AND HANDLING

Storage : Store in the original sealed container at 15°C ~ 20°C  
Avoid direct exposure to UV and sunlight  
Storage in ventilative and place that is no damage of snow,  
rain etc

Handling : In handling, wear safeguard.  
Caution of skin and eye contact  
Rinse immediately with water for at least 15 minutes

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## 8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

Technical protective measures : Establish an exhauster or washing stand

Respiratory protection : Wear suitable mask to avoid inhalation of vapor

Eye and hand protection : Wear safety glasses and chemical resistant gloves

Body protection : Wear chemical resistant working clothes for non body  
contact

Protection for sanitary reason : At skin contact, wash with plenty of soap and water

Permission concentration : N.E

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Viscous Liquid(White)

Odor : Slight Odor

pH : N.E

Solubility : N.E

Boiling point : N.E

Melting point : N.E

Explosive properties : N.E

Oxidation properties : N.E

Vapour pressure / density : N.E

Specific Gravity : 1.3 ~ 1.6(25°C)

Partition coefficient : N.E

Viscosity : 160±20Ps

Molecular weight : N.E

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## 10. STABILITY AND REACTIVITY

Chemical stability : Stable for six months in low temp(15°C ~ 20°C)  
Materials to avoid : Fire, Water, Strong Oxidant  
Conditions to avoid : Direct ray of light(the sun), Ultraviolet rays, Source of heat  
Hazardous decomposition : Other toxic gases or vapors may be generated in thermal  
product decomposition  
Possibility of polymerization : N.E  
toxic

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## 11. TOXICOLOGICAL INFORMATION

Effect of the eyes : N.E  
Effect of the skin : N.E  
Effect of the acute oral : N.E  
Effect of the acute inhalation : N.E  
Effect of the toxicity : N.E  
Effect of the mutagenicity : N.E  
Effect of the chronicity : N.E  
Effect of the next generation : N.E

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## 12. ECOLOGICAL INFORMATION

Aquatic and ecological influence: N.E  
Soil Migratory : N.E  
Remaining behind and : N.E  
decomposition

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## 13. PRECAUTION IN DISUSE

The present condition of regulation in law to control waste matters : In the case of disusing illegal, you are aggravating punished in law to control waste matters and special law for controlling of environment crime  
Disuse method : Product is waste matters generated in law to control waste matters. Only company have a license control in law to control waste matters  
Precaution in disuse : Isolate not to be leaked or outflow

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## 14. TRANSPORT REGULATIONS

Classification and regulation in : N.E  
shipping transport of dangerous  
things and storage rules  
Classification and regulation in : N.E  
ICAO / IATA. ADR. RID  
Precaution in transport : Take notice not to flow in rainwater etc  
Take notice of heat and direct ray of light(the sun)  
Take notice to leak in opening tool and breakage

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## 15. REGULATORY INFORMATION

Industry safety health law : Enforcement regulation in measurement of working  
environment  
Law(Article 41) in writing and stocking of MSDS  
Enforcement regulation in provision and wearing of  
protection equipments

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## 16. OTHER INFORMATION

The information given in this document has been compiled on the basis of best available knowledge in accordance with the requirements of the present National Regulations.

It does not imply that the information is complete or accurate in all cases and does not guarantee certain properties.

It is the users responsibility to satisfy him/herself as to the application of the information and/or recommendations given for his/her own use.

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\* U.K = Un-Known N.E = Not Established N.A = Not Applicable