

<b>PRODUCT</b>	W-4A /5041B Epoxy Resin
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**1.a) PRODUCT Epoxy Resin W-4A**

**1.b) SUPPLIER** website : <http://www.hs-epoxy.com>

Company : Chuzhou Hui-Sheng Electronic Materials Co., Ltd.

Sals Address: Chuzhou City, Anhui Province, south of Science and Technology Industrial Park, Wan Lian Road No. 2

MP: +86-18955005198

Tel.: +86-550-3213188

Fax : +86-550-3213188

**2. COMPOSITION and INFORMATION ON INGREDIENTS**

Name	Conc. %	CAS #
BPA type epoxy resin	30~35	25068-38-6
Filler	60~70	21645-51-2

**3. HAZARDS IDENTIFICATION**

ROUTES OF ENTRY: INHALATION, SKIN CONTACT ,INGESTION ,SAWLOW

POTENTIAL ACUTE HEALTH EFFECTS: Irritating to eyes and skin  
May be harmful if swallowed  
May cause sensitization by skin contact

POTENTIAL CHRONIC HEALTH EFFECTS No relevant information found

**4. FIRST AID MEASURES**

INHALATION: REMOVE THE VICTIM FROM THE COTAMINATION IMMEDIATELY TO FRESH AIR

SKIN CONTACT : WASH THE AFFECTED AREA UNDER WARM RUNNING WATER USING A MILD SOAP

HAZADOUS SKIN CONTACT: MEDICAL TREATMENT AS SOON AS POSSIBLE

EYE CONTACT: RINSE THE AFFECTED EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES ,THEN

SEEK MEDICAL TREATMENT

INGESTION SEEK MEDICAL TREATMENT

**5. FIRE AND EXPLOSION DATA**

FLAMMABILITY OF THE PRODUCT: FLAME-RESIST LIQUID

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES NONE

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES NONE

FIRE FIGHTING MEDIA AND INSTRUCTIONS: DRY CHEMICAL POWDER, CARBON DIOXIDE OR DRY SAND

SPECIAL REMARKS ON FIRE HAZARDS:

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**6. ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: Absorb spill with inert material (e.g., dry sand or earth ), then place in a chemical waste container with covers for disposal.

LARGE SPILL: Dike for later disposal, prevent spills from entering sewers , watercourses or low areas. sweep up, place in a bag and hold for waste disposal

**7. HANDLING AND STORAGE**

HANDLING Wear proper protective equipment .Avoid contact with skin or eyes.

STORAGE Keep container tightly closed. Keep away from sunlight ,heat flame or ignition source and store in a cool location

Follow all MSDS label precautions even after container is emptied because they may retain product residues

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

ENGINEERING CONTROLS Handle this material in a totally enclosed system ,or use with local exhaust ventilation

PERSONAL PROTECTION Safety spectacles ,rubber gloves ,rubber apron

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE AND APPEARANCE	LIQUID
COLOUR	WHITE
ODOUR	CHARACTERISTIC ODOR
MELTING POINT	NOT AVAILABLE
BOILING POINT	NOT AVAILABLE
THERMAL DECOMPOSITION	>220°C
FALSH POINT	216°C
VAPOUR PRESSURE	NOT AVAILABLE
DENSITY (40°C )	1.8~2.6G/ML
VISCOSITY(40 °C )	6000~9000CPS
SOLUBILITY IN WATER	INSOLUBLE

**10. STABILITY AND REACTIVITY DATA**

CHEMICAL STABILITY : This product is considered a stable material under normal and anticipated storage and handling conditions.

CONDITION OF INSTABILITY: Thermal decomposition may yield carbon monoxide and carbon dioxide ,nitrogen oxides

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## INCOMPATIBILITY WITH VARIOUS SUBSTANCES:

Avoid to react with strong oxidant, strong acid and aliphatic amine

**11. TOXICOLOGICAL INFORMATION**

TOXICITY TO ANIMALS No relevant information found.

CHRONIC EFFECTS ON HUMANS No relevant information found.

OTHER TOXIC EFFECTS ON HUMANS No relevant information found.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS No relevant information found.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS No relevant information found.

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY No relevant information found.

BOD5 AND COD No relevant information found.

PRODUCTS OF BIODEGRADATION No relevant information found.

TOXICITY OF THE PRODUCTS OF No relevant information found.

**13. DISPOSAL CONSIDERATION**

Do not dump into sewers, on the ground or into any body of water.  
Consult an expert on the disposal. Ensure disposal in compliance  
with government requirements and ensure conformity to local  
disposal regulations.

**14. TRANSPORT INFORMATION**

Follow all regulations in your country.  
Transport and store according to general caution and instructions in before  
mentioned comment.

**15. REGULATORY INFORMATION**

Regulatory information with regard to this substance in your country or in  
your region should be examined by your own responsibility.

**16. OTHER INFORMATION**

To the best of our knowledge, the information contained here in is accurate.  
However, all materials may present unknown hazards and should be used in  
caution. Although certain hazards are described herein, we cannot  
guarantee that these are the only hazards which exist. Final determination of  
suitability of any material is the sole responsibility of the user.

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W-4A /5041B Epoxy Resin

**1.a) PRODUCT 5041B****1.b) SUPPLIER**

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**2. COMPOSITION and INFORMATION ON INGREDIENTS**

Name	Conc. %	CAS #
Modified fat amine	98~99	11070-44-3
Accelerator	1~2	90-72-2

**3. HAZARDS IDENTIFICATION**

ROUTES OF ENTRY: INHALATION, SKIN CONTACT ,INGESTION ,SAWLOW

POTENTIAL ACUTE HEALTH EFFECTS: Irritating to eyes and skin , May cause  
sensitization by skin contact and inhalation

POTENTIAL CHRONIC HEALTH EFFECTS No relevant information found

**4. FIRST AID MEASURES**

INHALATION: REMOVE THE VICTIM FROM THE CONTAMINATION IMMEDIATELY TO FRESH AIR

SKIN CONTACT : WASH THE AFFECTED AREA UNDER WARM RUNNING WATER USING A MILD SOAP

HAZARDOUS SKIN CONTACT: MEDICAL TREATMENT AS SOON AS POSSIBLE

EYE CONTACT: RINSE THE AFFECTED EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES ,THEN

SEEK MEDICAL TREATMENT

INGESTION SEEK MEDICAL TREATMENT

**5 FIRE AND EXPLOSION DATA**

FLAMMABILITY OF THE PRODUCT: FLAMMABLE LIQUID

FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: DIRECT FIRE, STRONG OXIDANT.

EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES

Can release vapors that form explosive mixtures at or above the flash point.

Vapors can travel to a source of ignition and back.

FIRE FIGHTING MEDIA AND INSTRUCTIONS: DRY CHEMICAL POWDER, CARBON DIOXIDE OR DRY SAND

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**6. ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: Absorb spill with inert material (e.g., dry sand or earth ), then place in a chemical waste container with covers for disposal.

LARGE SPILL: Dike for later disposal, prevent spills from entering sewers , watercourses or low areas. sweep up, place in a bag and hold for waste disposal

**7. HANDLING AND STORAGE**

HANDLING Wear proper protective equipment .Avoid contact with skin or eyes.

STORAGE Keep container tightly closed. Keep away from sunlight ,heat flame or ignition source and store in a cool location

Follow all MSDS label precautions even after container is emptied because they may retain product residues

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

ENGINEERING CONTROLS Handle this material in a totally enclosed system ,or use with local exhaust ventilation

PERSONAL PROTECTION Safety spectacles ,rubber gloves ,rubber apron

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE AND APPEARANCE	LIQUID
COLOUR	PALE YELLOW
ODOUR	CHARACTERISTIC ODOR
MELTING POINT	< -15°C
BOILING POINT	>200°C
VAPOUR PRESSURE	NOT AVAILABLE
DENSITY (25°C)	1.08~1.15G/ML
VISCOSITY(40 °C )	120-160CPS
SOLUBILITY IN WATER	INSOLUBLE

**10. STABILITY AND REACTIVITY DATA**

CHEMICAL STABILITY : This product is considered a stable material under normal and anticipated storage and handling conditions.

CONDITION OF INSTABILITY: Thermal decomposition may yield carbon monoxide and carbon dioxide ,nitrogen oxides

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Avoid to react with alkaline water

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**11. TOXICOLOGICAL INFORMATION**

TOXICITY TO ANIMALS No relevant information found.

CHRONIC EFFECTS ON HUMANS No relevant information found.

OTHER TOXIC EFFECTS ON HUMANS No relevant information found.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS No relevant information found.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS No relevant information found.

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY No relevant information found.

BOD5 AND COD No relevant information found.

PRODUCTS OF BIODEGRADATION No relevant information found.

TOXICITY OF THE PRODUCTS OF No relevant information found.

**13. DISPOSAL CONSIDERATION**

This combustible material may be burned in a chemical incinerator.  
Do not dump into sewers, on the ground or into any body of water.  
Consult an expert on the disposal. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.

**14. TRANSPORT INFORMATION**

Follow all regulations in your country.  
Transport and store according to general caution and instructions in before mentioned comment.

**15. REGULATORY INFORMATION**

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

**16. OTHER INFORMATION**

To the best of our knowledge, the information contained here in is accurate. However, all materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of any material is the sole responsibility of the user.