



ADHESIVE

Material Safety Data Sheet

Product name: WB3000

Version No: 001 01-10-2015

1. Chemical Product and Company Identification										
Trade Name: World Brand Adhesive No. 3000	NFPA									
Company : Pin Trading Company Adhesive Manufacturer 10, Admiralty Street, #01-76, North Link Building, Singapore 757695		<table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Fire</td><td>3</td></tr> <tr><td>Reactivity</td><td>0</td></tr> <tr><td>Personal Protection</td><td>H</td></tr> </table>	Health	1	Fire	3	Reactivity	0	Personal Protection	H
Health		1								
Fire	3									
Reactivity	0									
Personal Protection	H									
Information Telephone Number: 65- 62696542 Emergency Contact: Drug & Poison Contact Center Emergency Telephone Number: 65-64239119										
UN Hazard Class: 3 IMO UN Number: 1133 Product Code: 5376										

2. Composition and Information on Ingredients		
Composition	Cas #	% by weight
Zinc Oxide	1314-13-2	<1 %
Magnesium Oxide	1309-48-4	<1 %
Resin	9003-35-4	< 5%
Polychloroprene	9010-98-8	< 20%
Ethyl Acetate	141-78-6	< 20%
SBP 80/100	N/A	< 20%
Solvent-I*	N/A	40-60%

* Toxicological Data on Ingredients: Ethyl Acetate: ORAL (LD50): Acute: 5620 mg/kg [Rat]; Solvent-I: ORAL (LD50): Acute: 12705 mg/kg [Rat]. 813 mg/kg [Mouse]. NFPA health rate: 1.

3. Hazards Identification
<p>Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.</p> <p>Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, the nervous system, liver, brain, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.</p>

4. First Aid Measures
<p>Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.</p> <p>Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.</p> <p>Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.</p>



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Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

5. Fire and Explosion Data

Flammability of the Product: Flammable

Auto-Ignition Temperature: More than 200 deg C.

Flash Points: Less than 10 deg C.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of heat.
Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

Flammable liquid, insoluble in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: When mixed hot with liquid dinitrogen tetroxide an explosion can result.

6. Accidental Release Measures

Small Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Toxic flammable liquid, insoluble or very slightly soluble in water.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a



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concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 300 (ppm) from ACGIH (TLV) [United States] TWA: 300 (ppm) from OSHA (PEL) [United States]
TWA: 1050 (mg/m³) from OSHA (PEL) [United States] TWA: 100 STEL: 300 (ppm) [United Kingdom (UK)]
TWA: 350 STEL: 1050 (mg/m³) [United Kingdom (UK)] Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical state and appearance: Yellow viscous liquid with mixed hydrocarbon odour.

Odor: Mixed hydrocarbon odour.

Taste: Not available.

Molecular Weight: Not available.

Color: Yellow

pH (1% soln/water): Not available.

Boiling Point: 80 deg C.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 1.12 (Water = 1)

Vapor Pressure: 13 kPa (@25 deg C)



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Vapor Density: 3.0 (Air=1).

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:

Soluble in methanol. Insoluble in cold water.

10. Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources (flames, sparks, static), incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Incompatible with strong oxidizers, silver perchlorate, sodium difluoride, Tetranitromethane, Uranium Hexafluoride. Frozen Bromine Trifluoride reacts violently with Toluene at -80 deg C.

Reacts chemically with nitrogen oxides, or halogens to form nitrotoluene, nitrobenzene, and nitrophenol and halogenated products, respectively.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11. Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 813 mg/kg [Mouse].

Chronic Effects on Humans: May cause damage to the following organs: blood, kidneys, the nervous system, liver, brain, central nervous system (CNS).

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Lowest Published Lethal Dose: LCL[Mouse] - Route: Inhalation; Dose: 70000 mg/m³/2H LCL[Rabbit] - 89600 mg/m³/1H

Special Remarks on Chronic Effects on Humans: Human: passes the placental barrier, detected in maternal milk. May affect genetic material (mutagenic)



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Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: It may cause skin irritation. It may be absorbed through the skin. Eyes: It may cause eye irritation. Inhalation: It may cause respiratory tract (nose, throat) irritation. Exposure to high concentrations of vapor may cause nausea, increased respiration rate. It may also affect behavior/central nervous system (dizziness, lethargy, somnolence, lightheadedness, seizures/convulsions, weakness, loss of coordination and judgement, trembling, drowsiness). Unconsciousness and death may occur at high exposures. In experimental animals there is a narrow margin between doses causing narcosis, loss of reflexes and death. Generalized vascular damage/collapse and degenerative changes were seen in the heart, lung, liver kidneys and brain of experimental animals exposed to lethal concentrations by inhalation or ingestion. Ingestion: May cause gastrointestinal irritation and diarrhea. May affect behavior/central nervous system with symptoms similar that that of inhalation. May cause liver and kidney damage. Aspiration into the lungs may cause chemical pneumonitis. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause drying, cracking and chapping of exposed areas. Ingestion and Ingestion: Prolonged or repeated inhalation or ingestion may cause liver and kidney damage. It may also affect behavior/central nervous system with symtoms similar to that of acute ingestion or inhalation.

12. Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation of calcium sulfate are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

13. Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: alkane solvent UNNA: 1145 PG: II

Special Provisions for Transport: Not applicable.

15. Other Regulatory Information

Federal and State Regulations:

Connecticut hazardous material survey.: Illinois toxic substances disclosure to employee act:
Illinois chemical safety act: New York release reporting list: Rhode Island RTK hazardous
substances: Pennsylvania RTK: Minnesota: Massachusetts RTK:
Massachusetts spill list: New Jersey: New Jersey spill list: Louisiana spill reporting:
TSCA 8(b) inventory: SARA 313 toxic chemical notification and release reporting:
CERCLA: Hazardous substances.: 1000 lbs. (453.6 kg)

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.



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Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

DSCL (EEC):

R11- Highly flammable.

R20- Harmful by inhalation.

S16- Keep away from sources of ignition – No smoking.

S25- Avoid contact with eyes.

S29- Do not empty into drains.

S33- Take precautionary measures against static discharges.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 01/10/2015

Last Updated: 01/10/2015

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