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MATERIAL SAFETY DATA SHEET

PIDILITE ALL PURPOSE WHITE GLUE

ABBREVIATIONS USED : NA - NOT APPLICABLE. NH - NON HAZARDOUS.
 CI - CONTENT INSIGNIFICANT.

SECTION I - MATERIAL IDENTIFICATION AND USE

CHEMICAL IDENTITY : Vinyl Acetate Homopolymer Emulsion.
 PRODUCT USE : General purpose adhesive.

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

COMPONENT	CAS NUMBER	PERCENT	PERMISSIBLE EXPOSURE LIMIT [TWA]	SHORT TERM EXPOSURE LIMIT [STEL]
Vinyl Acetate Homopolymer	NH	30 - 40 %	NH/NA	NH/NA
Residual Monomer	Not Req.	<0.3 % Max	CI	CI

SECTION III - PHYSICAL DATA

PHYSICAL STATE : Milky white emulsion. ODOUR : Mild odour of free monomer.
 BOILING POINT (°C) : >100 °C. pH : 4.0 - 6.0 VISCOSITY (POISE) : 60 - 90
 DENSITY/ SPECIFIC SOLUBILITY (20°C) IN VAPOUR PRESSURE
 GRAVITY (WATER=1) : 1.03-1.07 WATER : Miscible. makes emulsion. AT 25 °C : NA

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY : Non-Combustible. FLASH POINT : NA EXPLOSIVE LIMITS (% by vol.)
 LEL : NA UEL : NA
 FIRE EXTINGUISHING MEDIA : Material will not burn, however dried film may burn. Use water to extinguish the fire.
 THERMAL DECOMPOSITION PRODUCT : May yield acrid smoke and irritating vapours with oxides of carbon.
 SPECIAL FIRE FIGHTING PROCEDURE : Wear self contained breathing apparatus or equivalent [MSHA/ NIOSH - approved].
 UNUSUAL FIRE AND EXPLOSION HAZARDS : Emulsion will not burn. They may spatter if the temperature exceeds boiling point. Dried polymer films are capable of burning.

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY : Stable under ambient conditions.
 INCOMPATIBILITY : Mineral acids and high concentration salt solution.
 HAZARDOUS POLYMERISATION : Will not occur.
 CONDITIONS TO AVOID : Not specific.

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SECTION VI - TOXICOLOGICAL PROPERTIES OF MATERIAL

TOXIC EFFECTS OF EXPOSURE/ CONTACT : Residual monomer content is not a problem in normal handling and storage. However, high level of monomer vapours can be released into workroom atmosphere when emulsion are heat cured or dried [rollers, ovens, infrared lamps, etc.] with following possible effects.

- I) **SKIN CONTACT** : May irritate skin on prolonged or repeated contact.
- II) **EYE CONTACT** : Monomer vapours may irritate eyes.
- III) **INHALATION** : May cause irritation of mucous membrane, nausea, headache and dizziness.
- IV) **INGESTION** : Non-Toxic.

SECTION VII- PREVENTIVE MEASURES**PERSONAL PROTECTIVE EQUIPMENT :**

- EYE PROTECTION** : Splash-proof safety goggles.
- HAND PROTECTION** : Impervious hand gloves.

RESPIRATION PROTECTION : None required if good ventilation is maintained. Otherwise, wear MSHA/NIOSH approved respirator where vapour concentrations are encountered.

OTHERS : Eye wash facility and emergency shower.

ENGINEERING CONTROLS : Not specific.

SECTION VIII- HANDLING AND STORAGE

HANDLING PROCEDURE : Use appropriate Personal Protective Equipment [PPE] during handling. Protect against physical damage.

STORAGE REQUIREMENTS : Can be stored at ambient temperatures. Keep away from freezing. Keep container tightly closed when not in use.

SECTION IX - LEAK AND SPILL PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Review fire and safety precautions before proceeding with clean up. Use appropriate personal protective equipment during clean up. Dike and contain spill with inert material [e.g. sand, earth, etc.]. Transfer liquid to containers for disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL : The uncoagulated emulsion or the coagulum may be incinerated in an approved equipment. Coagulum and contaminated dike material may be landfilled according to current local or central regulation. Clear water may be sewered for biological treatment.

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SECTION X - FIRST - AID MEASURES

SKIN CONTACT : Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before use.

EYE CONTACT : Immediately flush eyes with plenty of water for at least 15 minutes. Call for Physician if irritations persist.

INHALATION : Move the subject to fresh air. If not breathing, give artificial respiration. If respiration is difficult, give Oxygen and seek help from Physician.

INGESTION : Do not induce vomiting. Immediately give two glasses of water to drink. Never give anything by mouth to an unconscious person. Call a Physician.

NOTE TO PHYSICIAN : No special instruction, treat symptomatically on the clinical conditions.

SECTION XI - MISCELLANEOUS INFORMATION

DISCLAIMER : The data presented here is based on information we believe to be reliable but unknown risks may be present. We disclaim liability for damage or injury which results from the use of the above data and nothing contained therein shall constitute a guarantee or a warranty (including warranty of Merchantability or fitness for a particular purpose) or representation (including freedom from Patentability) by us with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose as known to us. The final determination of the suitability of information, the manner of use of information or product and potential infringement of patents is the sole responsibility of the user.

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ISSUED BY SAFETY DEPARTMENT

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