

**SHANGHAI UNVISITY  
SCIENCE & TECHNOLOGY PARK.**

**ISO 9002 CERTIFIED**

ADD $\square$ NO. 149 YANCHANG ROAD, SHANGHAI 200072, CHINA

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33538-1020
- 1030
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- 1090

**MATERIAL SAFETY DATA SHEET**

FEB. 08, 2006

MSDS ID# WASHABLE INK

PRODUCT NAME: WASHABLE INK

PART #: WASHABLE INK

<b>SECTION I</b>	<b>SUPPLIER INFORMATION</b>
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COMMON NAME: WASHABLE INK

CHEMICAL NAME: N/A

FORMULA/CAS: N/A

SUPPLIER: SHANGHAI UNVISITY SCIENCE&TECHNOLOGY PARK

ADDRESS: NO.149 YANCHANG ROAD

SHANGHAI 200072

CHINA

**EMERGENCY PHONE**

008621-56331532/27990130

DATE ISSUED: FEB. 08, 2006

DATE REVISED:

<b>SECTION II</b>	<b>INGREDIENT INFORMATION</b>
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ETHANEDIOL $\text{HOCH}_2\text{CH}_2\text{OH}$  (Xn,if>25%) CAS NO:107-21-1

DIETHYLENE:O $(\text{CH}_2\text{CH}_2\text{OH})_2$  (Xn,if>25%) CAS NO:111-46-6

**INGREDIENT HAZARD STATEMENT**

WARNING: THIS PRODUCT IS CONSIDERED TO BE HAZARDOUS BY INHALATION ONLY BY OSHA (AS DEFINED IN THE OSHA HAZARD COMMUNICATIONS STANDARD, (29 CFR 1910)

THIS PRODUCT IS NOT EXPECTED TO CAUSE SCUTE OR CHRONIC TOXICITY. IT MAY CAUSE SKIN/EYE IRRITATION.

THIS PRODUCT IS NOT EXPECTED TO CAUSE TOXICITY TO THE ENVIRONMENT. COMPONENTS OF THIS MATERIALS ARE NOT BIOMAGNIFIED OR BIOCONCENTRALED ENVIRONMENT.

**SECTION III PHYSICAL/CHEMICAL PROPERTIES**

SOLUBILITY(WATER) : SOLUBLE  
 ORGANICS : INSOLUBLE  
 APPEARANCE/STATE : MULTICOLORED LIQUID  
 ODOR : INODOROUS

**WASHABLE INK COLOR**

COLORS	ITEM NO.	PH
LIGHT BLUE	JPC 110	5.5
YELLOW	JPC 111	9.3
BLACK	JPC 112	5.8
PINK	JPC 113	5.5
GREEN	JPC 114	4.8
ORANGE	JPC 115	5.3
MAGENTA	JPC 116	4.5
DARK BLUE	JPC 117	4.3
RED	JPC 118	7.3
BROWN	JPC 119	6.2
FLAME	JPC 120	6.8
FLESH/PEACH	JPC 121	6.7
FAWN	JPC 122	7.2
LEAF GREEN	JPC 123	5.5
DARK GREEN	JPC 124	4.7
PURPLE	JPC 125	6.9
GREY	JPC 126	6.2
TURQUOISE	JPC 127	6.3
GOLD	JPC 128	7.2
AQUA	JPC 129	5.7

**ADDITIONAL INFORMATION****SECTION IV FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT : NON-FLAMMABLE WATER BASED INK  
 AUTO IGNITION : NOT ESTABLISHED  
 LEL : NOT ESTABLISHED  
 UEL : NOT ESTABLISHED

**HAZARD RATINGS**

FLAMMABLE: 0                      HEALTH: 1                      REACTIVITY: 0                      SPECIAL: 0

**EXTINGUISHING MEDIA**

N/A

**SPECIAL FIRE FIGHTING PROCEDURES**

NONE KNOWN

**UNUSUAL FIRE FIGHTING PROCEDURES**

NONE KNOWN

**SECTION V REACTIVITY DATA**

STABILITY : PRODUCT IS STABLE AND NONREACTIVE WITH MOST MATERIALS  
 AVOID : NONE

**INCOMPATIBILITY (MATERIALS TO AVOID)**

STRONG OXIDIZING AGENTS

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS**

NOT KNOWN

POLYMERIZATION : POLYMERIZATION WILL NOT OCCUR  
 AVOID : NONE

**SECTION VI HEALTH HAZARD DATA**

**ROUTES OF ENTRY**

INHALATION : NO  
 SKIN : YES  
 INGESTION : YES  
 EYES : YES

**ADDITIONAL INFORMATION**

CONTACT PERSON : MS.MELISSA CHENG

**CARCINOGENICITY**

NTP: NO IARC: NO OSHA: NO

**ACUTE AND CHRONIC HEALTH HAZARDS**

MAY CAUSE SKIN OR EYE IRRITATION

**SIGNS AND SYMPTOMS OF EXPOSURE**

NONFLAMMABLE LIQUID, INHLALTION MAY CAUSE IRRITATION, INGESTION MAY CAUSE NAUSEA AND VOMITING , SKIN CONTACT NO ADVERSE EFFECTS EXPACRED, EYE CONTACT MAY CAUSE IRRITATION

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

NONE KNOWN

**EMERGENCY AND FIRST AID PROCEDURES**

INHALATION :REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION AS NEEDED.

EYES : IMMEDIATELY FLUSH WITH WATER CONTINUOUSLY FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION AS NEEDED.

SKIN : WASH AFFTECTED AREA WITH SOAP AND WARM WATER.

INGESTION : INDUCE VOMITING, DRINK LARGE VOLUME OF WATER.

**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

DOT CLASSIFICATION: NOT REGULATED BY DOT

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

SOAK UP SPILL WITH INERT MATERIAL SUCH AS; VERMICULITE, DRY CLAY ABSORBENT OR CHEMSORB. WIPE UP SMALL SPILLS WITH A CLOTH OR TOWEL. PREVENT RUN-OFF FROM ENTERING DRAINS, SEWERS OR RIVERS.

**WASTE DISPOSAL**

WASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

NO SPECIAL HANDLING PROCEDURE NEEDED, STORE THIS PRODUCT AWAY FROM HEAT

**OTHER PRECAUTIONS**

AVOID PROLONGED CONTACT WITH SKIN.

**SECTION VIII CONTROL MEASURES****RESPIRATORY PROTECTION**

NON REQUIRED.

**VENTILATION**

LOCAL EXHAUST

: AS NEEDED

SPECIAL EXHAUST

: NONE

MECHANICAL EXHAUST

: NONE

**OTHER PROTECTION**

GLOVES

CHEMICAL RESISTANT

EYE PROTECTION

CHEMICAL SAFETY GOGGLES

**CLOTHING**

IMPERMEABLE APRON TO PREVENT THE STAINING OF CLOTHES.

**WORK/HYGIENE PRACTICES**

ALWAYS WASH THOROUGHLY AFTER HANDLING PRODUCT AND BEFORE EATING, DRINKING, SMOKING OR USING THE RESTROOM.

**THIS IS THE END OF THE MSDS ID #**

**WASHABLE INK**

From:Skullduggery

714 832 1215

07/10/2006 12:35

#366 P.002/005

2107  
Page 1/4**MATERIAL SAFETY DATA SHEET**Skullduggery Inc.  
624 South B Street  
Suite A  
Tustin, CA 92780

Date Issued: March 13, 1996

**SECTION I****PRODUCT:** PerfectCast**CHEMICAL FAMILY:** Mixture of calcium sulfate hemihydrate & portland cement  
(plaster of paris,  $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$ )**SECTION II  
INGREDIENTS**

MATERIALS	Wt%	PEL mg/m <sup>3</sup>	TLV mg/m <sup>3</sup>	CAS NUMBER
plaster of paris	>95	10	15(T)/5(R)	26499-65-0
portland cement	<5	10	15(T)/5(R)	65997-15-1
silica-crystalline, respirable	trace	0.1(R)	0.1(R)	14808-60-7

(T) - Total (R) - Respirable

**SECTION III  
PHYSICAL DATA**

**MELTING POINT:** 1450°C - decomposes  
**SPECIFIC GRAVITY:** 2.7 - 3.0  
**APPEARANCE AND ODOR:** Gray powder, low odor.  
**SOLUBILITY IN WATER:** Insoluble  
**HARDENING TIME:** Varies. Check usage and/or product specification data for product.

**SECTION IV  
FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT (METHOD USED):** None  
**EXTINGUISHING MEDIA:** Not combustible  
**SPECIAL FIRE FIGHTING PROCEDURES:** None  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

From: Skullduggery

714 832 1215

07/10/2006 12:36

#366 P.003/005

PRODUCT: PerfectCast

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**SECTION V  
HEALTH HAZARD DATA**

Both portland cement and plaster of paris are considered nuisance dusts. The primary hazard with portland cement is its alkalinity (pH-12).

Eye, skin, nose, throat, and upper respiratory irritation can occur with prolonged dust exposures.

**EFFECTS OF OVEREXPOSURE:****ACUTE:**

**EYES:** Portland cement is a strongly alkaline material. Contact with eyes will cause irritation and possible corrosion damage.

**SKIN:** When mixed with water, this material hardens and then slowly becomes hot. **DO NOT** attempt to make a cast enclosing any part of the body. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue. Direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, then wash skin thoroughly with soap and water. Can cause mechanical irritation to skin, especially in sensitive individuals. May dry skin. If irritation persists, consult physician.

**INHALATION:** Irritating and may be corrosive to respiratory tract. Inhalation of dusts from this product can irritate the nose, throat, lungs, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation from dust. Labored breathing may occur after excessive inhalation. Remove subject to fresh air. If respiratory symptoms persist (irritation, cough, nausea, dizziness, etc.), consult physician.

**INGESTION:** Plaster of paris is nontoxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. Portland cement can be caustic. See Emergency and First Aid - Ingestion below.

**CHRONIC:**

**EYES:** None known.

**SKIN:** None known.

**INHALATION:** Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

**INGESTION:** No chronic effects known.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** Immediately flush eyes thoroughly with water for 15 minutes, including under lids. Get medical attention immediately.

**SKIN:** Immediately wash skin with copious amounts of water and mild soap. If irritation or pain persists, contact physician. If skin is dry, a commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing.

**INHALATION:** Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside.

From: SkullDuggery

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07/10/2006 12:36

#366 P.004/005

PRODUCT: PerfectCast

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**SECTION V  
HEALTH HAZARD DATA  
(continued)**

**EMERGENCY AND FIRST AID PROCEDURES:**

**INGESTION:** This product contains gypsum plaster. Plaster of paris hardens when wetted and, if ingested, may result in obstruction. Drinking glycerin, gelatin solutions or large volumes of water may delay hardening. Portland cement is alkaline may cause burns of the esophagus and stomach. Get medical attention immediately.

**TARGET ORGANS:** Eyes, Skin, Respiratory System.

**MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:** Pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

**PRIMARY EXPOSURE ROUTES:** Inhalation; Ingestion; Eye and/or Skin contact.

**CARCINOGENICITY OF INGREDIENTS:**

MATERIAL	IARC	NTP	OSHA
Respirable Crystalline Silica	2A	Anticipated	Not Listed

The average concentration of respirable crystalline silica measured in the plaster of paris was less than 0.1 Wt. %. However, respirable crystalline silica in this product has not been determined. Respirable crystalline silica is classified by IARC as a probable human carcinogen (2A). Long-term breathing of silica can cause lung disease (i.e., silicosis) and/or possibly lung cancer.

**SECTION VI  
REACTIVITY DATA**

<b>STABILITY:</b>	Stable
<b>INCOMPATIBILITY:</b>	None known.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Above 1450°C - CaO and SO <sub>2</sub>
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.

**SECTION VII  
SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Sweep up, material from spillage into a waste container for disposal. Do not flush down drains. If washed down, may plug drains. If already mixed with water, scrape up and place in container. Avoid dusting conditions, minimize airborne dust. Wear appropriate protective equipment.

**WASTE DISPOSAL METHOD:** This material can be disposed of as inert solid in a landfill or by other procedures which are accepted under federal, state and local regulations. Slurry may plug drains.

From:Skullduggery

714 832 1215

07/10/2006 12:36

#366 P.005/005

PRODUCT: PerfectCast

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### SECTION VIII SPECIAL PROTECTION INFORMATION

No TLV assigned to this mixture, see Ingredients Section. Minimize exposures in accordance with good hygiene practice.

**RESPIRATORY PROTECTION:** Not typically necessary under normal conditions of use. Provide general ventilation and local exhaust ventilation to meet TLV requirements. Avoid creating dust. Wear a NIOSH/MSHA-approved respirator in poorly ventilated areas or if TLV is exceeded and/or when dusty conditions exist.

**VENTILATION:** General mechanical or local exhaust to keep exposures below TLV.  
**PROTECTIVE EQUIPMENT:** Gloves or protective clothing are usually not necessary but may be desirable in specific work situations. Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye.

### SECTION IX SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep dry. Dew point conditions or other conditions causing presence of liquid will harden this material during storage. Be sure proper ventilation, respiratory and eye protection are used under dusty conditions.

#### Δ WARNING

When mixed with water, this material hardens and then slowly becomes hot. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue. Avoid creating dust. Dust can cause eye, skin, or respiratory tract irritation. Portland cement is strongly alkaline and can be corrosive to eyes, skin, and respiratory tract. Avoid eye and skin contact or inhalation of dust. Provide good general ventilation and local exhaust ventilation to reduce dust exposure. If dusty, wear NIOSH/MSHA-approved respiratory protection. Prolonged and repeated exposure to respirable crystalline silica may cause lung cancer. Wear eye and skin protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes and get medical attention. If ingested, call physician.

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

**U. S. Department of Labor**  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB NO. 1218-0072

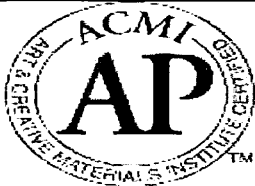
IDENTITY (AS USED ON LABEL AND LIST) **PRISM ACRYLICS** 9917 NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT

**SECTION I**

MANUFACTURER'S NAME <b>PALMER PAINT PRODUCTS, INC</b>	EMERGENCY TELEPHONE NUMBER <b>1-(248)-588-4500</b>
ADDRESS (NUMBER, STREET, CITY, AND ZIP CODE) <b>1291 ROCHESTER RD. TROY, MI 48083</b>	TELEPHONE NUMBER FOR INFORMATION <b>1-(248)-588-4500</b>
	DATE PREPARED <b>October 27, 2003</b>
	SIGNATURE OF PREPARER (OPTIONAL)

**SECTION II - HAZARDOUS INGREDIENTS/ IDENTITY, INFORMATION**

Hazardous Components (Specific chemical identity, Common Name(s))	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% (OPTIONAL)
VINYL ACETATE ACRYLIC COPOLYMER		TRADE SECRET		
WATER		CAS 7732-18-5		
CALCIUM CARBONATE		CAS 1317-65-3		
PROPYLENE GLYCOL		CAS 57-55-6		
MINERAL CLAY		CAS 1302-78-9		



"PRODUCTS BEARING THE AP APPROVED PRODUCT SEAL OF ACMI ARE CERTIFIED IN A PROGRAM OF TOXICOLOGICAL EVALUATION BY A MEDICAL EXPERT TO CONTAIN NO MATERIALS IN SUFFICIENT QUANTITIES TO BE TOXIC OR INJURIOUS TO HUMANS OR TO CAUSE ACUTE OR CHRONIC HEALTH PROBLEMS. THIS PROGRAM IS REVIEWED BY ACMI'S TOXICOLOGICAL ADVISORY BOARD. THESE PRODUCTS ARE CERTIFIED BY ACMI TO BE LABELED IN ACCORDANCE WITH THE CHRONIC HAZARD LABELING STANDARD, ASTM D-4236 AND FEDERAL LAW, P.L. 100-695. IN ADDITION, THERE IS NO PHYSICAL HAZARD AS DEFINED WITHIN 29 CFR PART 1910.1200(C)."

**SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**

BOILING POINT	200 °F	SPECIFIC GRAVITY (H20=1)	1.32
VAPOR PRESSURE (mm Hg)	N/A	MELTING POINT	N/A
VAPOR DENSITY (AIR=1)	LIGHTER	EVAPORATION RATE (BUTYL ACETATE=1)	SLOWER
SOLUBILITY IN WATER	MISCIBLE		
APPEARANCE AND ODOR	MINIMAL ODOR		

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED) NON FLAMMABLE IN LIQUID STATE	FLAMMABLE LIMITS N/A	LEL N/A	UEL N/A
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EXTINGUISHED MEDIA  
USE WATER SPRAY, CO2 , FOAM ON DRY PRODUCT

SPECIAL FIRE FIGHTING PROCEDURES  
PERSONS EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR SELF CONTAINED BREATHING APPARATUS

UNUSUAL FIRE AND EXPLOSION HAZARDS  
POSSIBLE PRESSURE BUILDUP FOR BULK PRODUCT CONTAINERS IF HEATED.  
USE WATER SPRAY TO COOL CONTAINERS.

(REPRODUCE LOCALLY)

OSHA 174 SEPT 1985

IDENTITY PRISM ACRYLICS

**SECTION V -- REACTIVITY DATA**

STABILITY	UNSTABLE	CONDITIONS TO AVOID	N/A
	STABLE	YES	

INCOMPATIBILITY (MATERIALS TO AVOID) NONE KNOWN

HAZARDOUS DECOMPOSITION OR BYPRODUCTS INCOMPLETE COMBUSTION MAY YIELD CARBON MONOXIDE

HAZARDOUS	MAY OCCUR	CONDITIONS TO AVOID	NONE KNOWN
POLYMERIZATION	WILL NOT OCCUR	X	

**SECTION VI -- HEALTH HAZARD DATA**

ROUTE(S) OF ENTRY INHALATION? N/A SKIN? N/A INGESTION? N/A

HEALTH HAZARDS (ACUTE AND CHRONIC) NON-TOXIC WATER BASED ACRYLIC COLORS NO ACUTE OR CHRONIC

HAZARDS ASSOCIATED WITH PRODUCT AS DEFINED BY 29 CFR 1910.1200...

AND IN COMPLIANCE TO THE ASTM D-4236 LABELING REGULATIONS.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

SIGNS AND SYMPTOMS OF EXPOSURE NONE KNOWN

MEDICAL CONDITIONS

GENERALLY AGGRAVATED BY EXPOSURE NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES

CONSULT A PHYSICIAN IF EYE OR SKIN IRRITATION SHOULD PERSIST AFTER IRRIGATING AREA WITH WATER.

**SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WIPE UP WITH CLOTH OR INERT ABSORBENT MATERIAL.

WASTE DISPOSAL METHOD USE NORMALLY ACCEPTED PROCEDURES FOR WASTE DISPOSAL WHICH MEET ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DO NOT STORE IN AREAS WHERE TEMPERATURES EXCEED NORMAL ROOM TEMPERATURES.

OTHER PRECAUTIONS

NONE KNOWN

**SECTION VIII -- CONTROL MEASURES**

RESPIRATORY PROTECTION (SPECIFY TYPE) NONE NEEDED

VENTILATION	LOCAL EXHAUST	N/A	SPECIAL	N/A
	MECHANICAL (GENERAL)	RECOMMENDED	OTHER	N/A

PROTECTIVE GLOVES SKIN CONTACT MAY BE IRRITATING EYE PROTECTION EYE CONTACT MAY BE IRRITATING

OTHER PROTECTIVE CLOTHING OR EQUIPMENT NONE NEEDED

WORK/HYGIENIC PRACTICES WASH HANDS WITH SOAP AND WATER BEFORE EATING.