

Safety Data Sheet

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SECTION 1: IDENTIFICATION

TRADE NAME: UNSATURATED POLYESTER COLOR PASTE

CAS NUMBER: MIXTURE

**PRODUCT CODE: HWE-2303**

PRODUCT DESCRIPTION: WHITE TINT PASTE {65}

HK RESEARCH CORPORATION

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Section 2: Hazard(s): Identification

The product contains no substances which at their given concentration, are considered to be hazardous to health

Recommended use of the chemical and restrictions on use:

Intended Use: Pigmentation of polyesters

Uses advised against: No information available

Route(s) of Exposure: Inhalation, Ingestion, skin and eye contact.

Precautionary Statements - Prevention

Avoid breathing vapor or mist

Do not get in eyes, on skin, or on clothing

Use personal protective equipment as required

Wash hands thoroughly after handling

Acute Exposure:

INHALATION: Remove person to fresh air. If signs/symptoms continue, get medical attention.

SKIN: Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops or persists.

EYES: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

INGESTION: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

Chronic Exposure: No information.

Carcinogenicity: This material has not been determined to be a carcinogen

Section 3: Composition/Information on ingredients

1.

CAS# 013463-67-7  
TITANIUM DIOXIDE 60 - 70%  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: 10 mg/m<sup>3</sup> ACHGIH 2011  
OSHA PEL/TWA: 10 mg/m<sup>3</sup>  
LD50, ORAL: 5000 mg/kg RAT  
LD50, DERMAL: 5000 mg/kg RABBIT  
LC50, INHALATION: 6.82 mg/l RAT, 4 HOURS  
AVOID BREATHING DUST

2.

CAS# PROPRIETARY  
UNSATURATED POLYESTER RESIN 29 - 39%  
EXPOSURE LIMIT:  
ACGIH TLV/TWA: NE  
OSHA PEL/TWA: NE  
LD50, ORAL: IRRITANT MILD  
LD50, DERMAL: IRRITANT MILD  
LC50, INHALATION: IRRITANT HEATED VAPOR  
EYES-MILD IRRITANT

REMAINING COMPONENTS NOT DETERMINED TO BE HAZARDOUS  
AND/OR HAZARDOUS COMPONENTS PRESENT AT LESS THAN  
1.0% (0.1% FOR CARCINOGENS)

#### Section 4: First-aid measures

##### EYE CONTACT:

Flush immediately with large amounts of water for 20-30 minutes. Eye lids should be held away from the eyeball to insure thorough rinsing. Get medical attention if irritation persists.

##### INHALATION:

Remove person to fresh air. If signs/symptoms continue, get medical attention.

#### Section 5: Fire-fighting measures

FLASH POINT: NOT APPLICABLE

FLAMMABILITY CLASSIFICATION: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

FLAMMABILITY LIMITS IN AIR (% by volume): NOT APPLICABLE

##### BASIC FIREFIGHTING PROCEDURES:

Suitable Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical, Water spray, Water or foam may cause frothing.

Unsuitable Extinguishing Media: No information available.

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

Protective Equipment and Precautions for Firefighters:

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Use water spray to cool fire-exposed containers.

#### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

Environmental Precautions: Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up:

Methods for Containment: Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods for Clean-up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

#### Section 7. Handling and storage

Precautions for Safe Handling: Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Keep in a dry place.

## Section 8. Exposure controls/personal protection

### Exposure limits

Appropriate engineering controls: Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local ventilation may be required during certain operations. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

Individual protection measures, such as personal protective equipment

Eye/face Protection: Safety glasses with side-shields. If splashes are likely to occur: Tight sealing safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection: Gloves made of neoprene. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Chemical resistant apron. Boots.

Respiratory Protection: None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapor cartridges where airborne concentrations may exceed exposure limits in Section 8. Use an approved positive-pressure air-supplied respirator with emergency escape provisions if there is any potential for an uncontrolled release, airborne concentrations are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. No personal respiratory protective equipment normally required. Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

## Section 9. Physical and chemical properties

Appearance Clear - Colorless

Odor Mild

Odor Threshold Not available

Physical State Liquid

pH No information available

Flash Point > 93°C / > 200 °F

Autoignition Temperature No data available

Boiling point / boiling range No data available

Melting point / Freezing point No information available

Flammability Limit in Air

Lower 1.1% (2-Ethylhexanol)

Upper 12.5% (2-Ethylhexanol)

Specific Gravity 1.00 - 1.05 @ 25°C

Solubility Insoluble (Water)

Evaporation Rate No information available

Vapor Pressure not volatile

Vapor Density No information available

Explosive Properties No information available

Oxidizing Properties No information available

Percent Volatile, wt.% 4 - 6 % by weight

VOC Content: 41.2 g/l (calculated) product as supplied

Viscosity 100 - 150 cps @ 25°C

Partition Coefficient (n-octanol/water) No information available

Decomposition temperature No information available

## Section 10. Stability and reactivity

Reactivity: Not applicable.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: Contamination by those materials referred to under Incompatible materials.

Incompatible materials: Incompatible with oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

Hydrocarbons.

## Section 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Primary Routes of Entry Skin Contact, Ingestion, Inhalation, Eye contact

Acute toxicity Mild skin irritation

Components influencing toxicology

Dipropylene Glycol

Oral LD50 = 13300 mg/kg (Rat)

Dermal LD50 = 20600 mg/kg (Rabbit)

2-Ethylhexanol

Oral LD50 1516 - 2774 mg/kg (Rat)

= 1480 mg/kg (Rat)

= 11100 mg/kg (Rat)

> 5000 mg/kg (Rat)

> 8300 mg/kg (Rat)

Dermal LD50 = 2520 mg/kg (Rabbit)

> 1600 mg/kg (Rat)

> 3160 mg/kg (Rabbit)

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eyes Mild eye irritant.

Skin Mild skin irritant. Repeated exposure may cause skin dryness or cracking.

Inhalation vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract.

Ingestion Ingestion (swallowing) may irritate the mouth, throat and stomach. Ingestion is not an anticipated route of exposure for this material in industrial use.

Irritation May cause irritation.

Corrosivity Not corrosive.

Sensitization Not sensitizing.

Mutagenic effects No information available.

Carcinogenicity NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Legend NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

OSHA - Occupational Safety and Health Administration

Productive Toxicity No information available.

Neurological Effects No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ(s) Central nervous system (CNS), Blood, Kidney, Liver, Spleen.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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IARC - International Agency for Research on Cancer

OSHA - Occupational Safety and Health Administration

Reproductive Toxicity No information available.

Neurological Effects No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ(s) Central nervous system (CNS), Blood, Kidney, Liver, Spleen.

Aspiration Hazard No information available

Numerical measures of toxicity - Product Information

Unknown acute toxicity 94.0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 2723 mg/kg

ATEmix (dermal) 41214 mg/kg mg/L

ATEmix (inhalation-vapor) 22 mg/L

## Section 12. Ecological Information

Ecotoxicity

Unknown aquatic toxicity

99.9% of the mixture consists of component(s) of unknown hazards to the aquatic

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

## Section 13. Disposal considerations

Waste treatment methods

Disposal Considerations NOT A RCRA HAZARDOUS WASTE: When discarded in its purchased form, this material would not be regulated as a RCRA Hazardous waste under 40 CFR 261.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number Not applicable.

Section 14. Transport information

DOT

Proper Shipping Name NOT REGULATED

TDG

Proper Shipping Name NOT REGULATED

MEX

Proper Shipping Name NOT REGULATED

IATA

Proper Shipping Name NOT REGULATED

IMDG/IMO

Proper Shipping Name NOT REGULATED

Section 15. Regulatory information

International Inventories

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory

Canadian Inventory Status: All components of this material are listed on the Canadian Domestic Substances List (DSL)

Australian Inventory Status: This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances

Korean Inventory Status: This product contains only chemicals which are currently listed on the Korean Chemical Substances List

Philippine Inventory: This product contains only chemicals that are currently listed on the Philippine Inventory of Chemicals and Chemical Substances

Japan ENCS: This product contains only chemicals that are currently listed on the Japanese Inventory of Existing and New Chemical Substances

Chinese IECS: This product contains only chemicals that are currently listed on the Chinese Inventory of Existing Chemical Substances

New Zealand Inventory: This product contains only chemicals which are currently listed on the New Zealand Inventory of Chemicals

US Federal Regulations

TSCA 12(b) - Export Notification:

This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b)

Export Notification requirements.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes

Chronic Health Hazard No

Fire Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

Clean Water Act

This product does not contain any listed substances

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

This product does not contain components that have been assigned reportable quantities.

State Regulations

California Proposition 65

This product is not known to contain any chemicals listed by the State of California (Safe Drinking Water and Toxic Enforcement Act of 1986) to cause cancer or reproductive toxicity.

Canada

Additional Canadian Regulatory Information: The following chemicals are listed on the WHMIS Ingredient Disclosure List:

None

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the Controlled Products Regulations.

Section 16. Other information

Preparation Date: JULY 20, 2015

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