



## Material Safety Data Sheet

Per OSHA-recommended ANSI Z400.1-2004 standard format &  
in accordance with European standard format

### 1. Product and Company

Product Name : K 2 Opaque (48T – 62T) (10 colors)  
(**GOTS approved** except Yellow, Green, and Violet)

Product Use : Textile Industry

Company : Zydex Industries  
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### 2. Hazards Identification:

#### EMERGENCY OVERVIEW:

**Product Description:** Water based polymer formulation for Textile Printing

**Health Hazards:** The primary hazards presented by this product are the potential for mild irritation of contaminated tissue and the potential for accidental ingestion.

**Flammability Hazards:** This product is not flammable. If this product is involved in a fire, the decomposition products generated will include irritating vapors and gases and some carbon monoxide.

**Reactivity Hazards:** This product is not reactive.

**Environmental Hazards:** Although release of this product to the environment is not expected to cause significant adverse effect, all releases should be avoided.

**Emergency Considerations:** Emergency responders should wear appropriate protection for situation to which they respond.

**3. Composition/Information on Ingredients:**

Chemical nature: **Water Based formulated Acrylic Polymer for Textile Printing** (Black, Marine, Blue (G), Blue (R), Scarlet, Red, Orange, Yellow, Green, Violet, color pigments available)

Resin, pigments, fillers, additives

**4. First Aid Measures**

General advice	First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
If inhaled	Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary
If on skin contact	Wash thoroughly with soap and plenty of water. If skin irritation persists seek medical attention
If contact with eyes	Wash affected eyes for at least 15 minutes under running water with eyelids held open, Consult an eye specialist.
If on ingestion	Rinse mouth and then drink plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

**5. Fire-fighting methods:**

**FLASH POINT:** Non – flammable

**AUTOIGNITION TEMPERATURE:** Not established

**FLAMMABLE LIMITS (in air by volume, %):**

Lower (LEL): Not applicable

Upper (UEL): Not applicable

**FIRE EXTINGUISHING MATERIALS:**

Suitable extinguishing media	Water spray, dry extinguishing media, foam, Carbon dioxide. Non – Flammable and hence no fire hazard
Hazards during fire-fighting at unusual conditions	May emit Carbon dioxide (CO <sub>2</sub> ), Carbon monoxide (CO), oxides of nitrogen (NOX), other hazardous materials and smoke are all possible under fire conditions
Protective equipment for fire-fighting at unusual conditions	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear
Further information (in case of at unusual conditions)	In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately; do not allow reaching sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations

**6. Accidental release measures:**

Personal precautions: Do not get in eyes. Do not take internally. Avoid skin contact. Prevent prolonged or repeated breathing of vapor or spray mists. Keep unnecessary people away. Floor may be slippery, use care to avoid falling. Dike and contain material with inert material (e.g. earth, sand). Transfer liquid and contaminated diking material to separate containers for disposal. Environmental precautions: Keep spills and cleaning run-offs out of municipal sewers and open bodies of water. Comply with local, national and state regulations.

**7. Handling and storage**

Handling	Ensure thorough ventilation of stores and work areas
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Protection against fire & explosion	No special measures necessary
Storage	Keep containers dry and tightly closed to avoid contamination. Store in a dry and cool place

## 8. Exposure controls and personal protection

General protection and hygienic measures: Avoid contact with skin. Do not get in eyes. Do not take internally. Avoid breathing vapors or spray mists. Use in well-ventilated areas. Hand/skin protection: Wear neoprene or rubber gloves to prevent skin contact. Wash hands before eating, smoking or using the wash room. Food or beverages should not be consumed anywhere this product is handled or stored. Respiratory protection: None required if good ventilation is maintained. Wear respirator suitable for concentrations and of contaminants encountered. Use approved airline type respirators or hoods in confined areas. Eye/face protection: Use approved safety eyewear including side shields, chemical goggles and face shields.

## 9. Physical and chemical properties

Form	Paste
Color	White, Black, Marine, Blue (G), Blue (R), Scarlet, Red, Orange, Yellow, Green, Violet
Odour	Sweet Smell
Flash point	> 100° C
Ignition temperature	> 200° C
Explosion hazard	No explosion hazard
pH value	7 - 9

## 10. Stability and reactivity

Conditions to avoid	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Substances to avoid	Strong acid and oxidizing agents

Hazardous reactions	No hazardous reactions when stored and handled according to instructions
Decomposition products	No hazardous decomposition products known

**11. Toxicological information → NON-TOXICAL**

**Acute Oral Toxicity on Rats:**

LD50: > 2000 mg/kg

At normal condition the product is non-toxic

**12. Ecological information**

**Aquatic Toxicity in Freshwater Fish:**

LC50, EC50, IC50 > 1 mg/l (no mortality and clinical abnormality observed)

**Relation of biodegradability / eliminability (OECD 301, 302A, 302B/303A) to aquatic toxicity (LC50 or EC50 or IC50; OECD 201, 202, 203) : > 95% and 1-10 mg/l**

**13. Disposal consideration**

Product	Must be dumped or incinerated in accordance with local regulations
Contaminated Packaging	Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance to local

**14. Transport Information :**

The product do not constitute a hazardous substance in national/international road, rail, sea and air transport

DOT regulations Hazard class	Not regulated
Land transport ADR/RID (Cross-border) ADR/RID Class	Not regulated
Maritime transport IMDG, IMDG Class	Not regulated
Air transport ICAO-TI and IATA-DGR , ICAO/IATA Class	Not regulated
U.S. Department of Transportation Hazard Class:	Not Regulated
Transport/Additional information	Not dangerous according to the above specifications.

### **15. Regulatory Information:**

#### **California Preposition:**

The product contains formaldehyde as substance listed by California PROP – 65 at concentration of less than 20 mg/kg

#### **National Regulation:**

All components of these products are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

#### **Product related hazard information:**

- ✓ Hazard symbols: Non-Hazardous
- ✓ Risk phrases: Irritating to eyes, respiratory system and skin.

#### **Safety phrases:**

- ✓ In case of contact with eyes, rinse immediately with plenty of water & seek medical advice.
- ✓ Wear suitable protective clothing.

#### **Information about limitation of use:**

- ✓ For use only by technically qualified individuals

<b>16. Other Information</b>
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HMIS HAZARD RATING			
Health = 1	Flammability = 1	Physical Hazard = 0	Personal Protection = A
HAZARD INDEX			
0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe			
PERSONAL PROTECTION CODE :			
A = Safety glasses			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

**Department issuing MSDS: Product safety department**