



MATERIAL SAFETY DATA SHEET

Renk Yolu Chem. Ltd.
Cumhuriyet Cad. Baglar Sok. No:2/E
34212 Gunesli – Istanbul / Turkey

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1. Product and Company Identification

1.1 Product / Trade Name: Color Way® Auxiliary Chemicals
1.2 Chemical Family: Water Based Dispersion
1.3 Product Codes: HPW-160, HPW-170, HPW-180, HPW-190, HPW-260, HPW-290, HPW-360, HPW-370, HPW-380, HPW-460, HPW-470, HPW-480, HPW-485, HPW-490, HPW-560, HPW-570, HPW-580, HPW-660, HPW-760, HPW-770, HPW-780, HPW-860, HPW-870, HPW-880, HPW-890, HPW-900, HPW-910, HPW-920

1.4 Manufacturer's Information:

Name: Renk Yolu Chem. Ltd.
Address: Buyuk Kilicli Yolu Cad. No:16
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Phone: +90.212.748 49 48
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1.5 In Case of Emergency Contact: +90.532.384 06 12

2. Composition, information on Ingredients

Mixture of Titanium Dioxide, Antifoam, Thickener, Acrylic Binders and other proprietary ingredients.

3. Hazards Identification

3.1 Critical Hazards to Human and the Environment: None

3.2 Eye Contact: Low hazard for normal industrial use; however, any material that contacts the eye may cause mechanical irritation.

3.3 Skin Contact: Low hazard for normal industrial use.

3.4 Inhalation: Not a problem at room temperature, but fumes formed at elevated temperatures can be irritating.

3.5 Ingestion: Consult physician.

4. First Aid Measures

4.1 Eyes: After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists have eyes examined and tested by medical personnel.

4.2 Skin: Wash with soap and water.

4.3 Inhalation: Remove to fresh air for relief.

4.4 Ingestion: Consult physician.

4.5 Note to Physician: None

5. Fire Fighting Measures

5.1 Flash Point (°C / °F) and Method: >204°C / >400°F (C.O.C. Method)

5.2 Extinguishing Media: Foam, CO₂, Dry Chemical, or water mist.

5.3 Special Fire Fighting Procedures: Wear self contained breathing apparatus. Fumes released on burning may be toxic and dangerous.

5.4 Unusual Fire and Explosion Hazards: None

5.5 Explosion Limits in Air (Lower-Upper Limit): Unknown

5.6 Further Information: Water may be ineffective but may be used to cool containers.

6. Accidental Release Measures

Dike to contain spill. Recover free product. Collect remaining product with absorbent materials. In general, treat as non-hazardous material.

7. Handling and Storage

- 7.1 Handling:** Wash thoroughly after handling.
7.2 Storage: Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use.
7.3 Storage Temperature: 10-32°C / 50-90°F
7.4 Further Information: Use in a well ventilated area. Material can gel with long exposure to elevated temperatures (Above 35°C / 95°F).
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8. Exposure Control / Personal Protection

- 8.1 Engineering Controls:** Use with adequate ventilation.
8.2 Respiratory Protection Equipment: Not necessary at room temperature.
8.3 Protective Gloves: Usually not required.
8.4 Eye and Face Protection: Usually not required.
8.5 Other Protective Equipment: Usually not required.
8.5 Ventilation: Local exhaust as needed near processing equipment.
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9. Physical and Chemical Properties

- 9.1 Form:** Thick liquid
9.2 Color: All colors
9.3 Boiling Point: Solidifies before boiling.
9.4 Melting Point: Not applicable
9.5 Freezing Point: Not applicable
9.6 Vapor Pressure: Unknown
9.7 Vapor Density (Air=1): >1
9.8 % Volatile by Weight: 0.2% - 4%
9.9 Specific Gravity at 25°C: 1.00 – 1.50
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10. Stability and Reactivity

- 10.1 Chemical Stability:** Material is stable.
10.2 Conditions to Avoid: Storage temperatures above 35°C / 95°F.
10.3 Incompatibility (Materials to Avoid): None
10.4 Hazardous Decomposition Products: CO, CO₂, HCl.
10.5 Hazardous Polymerization: Will not occur.
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11. Toxicological Information

According to information available and in our experience these products are not harmful to health provided they are properly handled and used according to the recommendations provided.

12. Ecological Information

Passed from the AZO Dyes test according to § 35 LMBG B.82.02.2. (ITS Report: 173604)

13. Disposal Considerations

Dispose of materials in accordance with the applicable local, national and federal regulations. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations.

14. Transport Information

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| 14.1 Land Transport (GGVSE/ADR/RID/GGVE): | Not regulated |
| 14.2 Sea Transport (IMDG/GGVSee): | Not regulated |
| 14.3 Air Transport (ICAO/IATA): | Not regulated |

15. Regulatory Information

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| 15.1 EU Classification: | According to EU regulations this product is not classified or labeled. |
| 15.2 TSCA Status: | All components of these products are on the US TSCA Inventory. |
| 15.3 National Legislation / Regulations: | All other national and local regulations, if applicable to the use, transport, or disposal of these products, should be observed. |

16. Other Information

16.1 Disclosure:

All recommendations and statements made, if any, are based on Color Way's research and experience. However, since Color Way has no control over the conditions of use or storage of the product sold, Color Way cannot guarantee the results obtained through the use of its products. All products are sold and samples are given without any representation or warranty, expressed or implied, of fitness for any particular purpose or otherwise, and upon condition that the buyer shall determine the suitability of the product for its own purposes. This applies also where protective rights of third parties are involved. It does not release the user from the obligation to test the suitability of the product for the intended use and application. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process. Recipients of our products must take responsibility for observing existing laws and regulations.

16.2 Special Notes:

If thinners or reducers are added, hazards may increase. See MSDS on specific additives or call manufacturer.

16.3 Definitions:

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| <i>C.O.C.:</i> | Cleveland Open Cup (Flash Point Standard ASTM D 92) |
| <i>ITS:</i> | Intertek Testing Services |
| <i>EU:</i> | European Union |
| <i>TSCA:</i> | U.S. Environmental Protection Agency's Toxic Substances Control Act |
| <i>GGVSE/ADR:</i> | Combined German and European regulations for the transportation of dangerous goods on road. |
| <i>RID:</i> | International regulations concerning the international carriage of dangerous goods by rail. |
| <i>GGVE:</i> | Combined German and European regulations for the transportation of dangerous goods on rail. |
| <i>IMDG:</i> | Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization. |
| <i>GGVSee:</i> | Combined German and European regulations for the transportation of dangerous goods on sea. |
| <i>ICAO:</i> | Regulations covering the international transportation of dangerous goods issued by the International Civil Aviation Organization |
| <i>IATA:</i> | Regulations covering the international transportation of dangerous goods issued by the International Air Transport Association |