



MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

DUNCAN ENTERPRISES
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)

EMERGENCY TELEPHONE NUMBERS

Health Emergency: 559-291-4444 7:00 am – 3:30 pm
Pacific Standard Time
Spill and Off-Hour
Health Emergencies: 800-424-9300 U.S. and Canada
703-527-3887 Outside U.S. and
Canada (Collect)

Product Name: TULIP COOL COLORS BLOCK
Synonym Name(s): Water - Based Resist

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Family: Water solution of soluble polymers

The ingredients in this formulation are a trade secret. All ingredients in the formula are non-hazardous, unless specified in Sections 3 and 15.

3. HAZARDS IDENTIFICATION

Emergency Overview: Not considered as hazardous
Yellow Liquid Slight Odor
Eye Contact: Slight/mild irritant
Skin Contact: Repeated or prolonged skin contact may result in mild irritation
Inhalation: Unlikely to be hazardous by inhalation
Ingestion: Low oral toxicity

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water until irritation subsides. Consult a physician if irritation persists.
Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.
Inhalation: Move subject to fresh air.
Ingestion: If swallowed, give two glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point: > 212° F
Extinguisher Media: Water spray or fog, CO₂, Dry Chemical, Foam – Use extinguishing media appropriate for surrounding fire
Special Firefighting Procedures: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes
Fire & Explosion Hazards: This is a water-based product and presents no particular fire or explosion hazard
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, unknown hydrocarbons
NFPA Flammability Hazard Class: 0 = Insignificant

Duncan Enterprises Material Safety Data Sheet – Tulip Cool Colors Block

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Spills should be taken up with suitable absorbent material and placed in containers. Spill areas can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway. Disposal should be in accordance with local, state or national legislation.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

Storage Temperature: 40° - 90°F
Handling / Storage: Store in a cool, dry place; keep container sealed when not in use;
Avoid temperature extremes

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Conditions Under Which Personal Protective Equipment Required: Normal work conditions, maintenance / repair.
Eye Protection Requirements: Wear safety glasses with side shields.
Glove Requirements: Gloves are not normally required for foreseeable conditions of use.
Clothing Requirements: Protective clothing is normally not necessary for foreseeable conditions of use.
Change / Removal of Clothing: None required
Wash Requirements: None
Respirator Requirements: None required under normal handling conditions.
Ventilation Requirements: General

9. PHYSICAL AND CHEMICAL PROPERTIES

Pure Material or Mixture: Mixture
Physical Form: Liquid
Appearance / Physical Description: Yellow; slight odor
Odor Threshold: Not Available
pH: Approximately 7.5
Boiling Point: > 212°F
Melting / Freezing Point: < 40°F
Solubility in Water: Soluble
Partition Coefficient (n-octanol/water): Not Applicable
Specific Gravity (Water = 1): 1.31
Bulk Density: 10.9 lb / gal
Volatiles: Approximately 40% / wt
Evaporation Rate (Water = 1): 1
Vapor Pressure: 17.5 mm Hg @ 20°C (68°F)
Vapor Density (Air = 1): 0.62

Duncan Enterprises Material Safety Data Sheet – Tulip Cool Colors Block

9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Volatile Organic Compounds: Estimated to be < 0.008 lb/gal
Autoignition Temperature: Unknown
Flash Point: > 212°F
Oxidizing Properties: Not Applicable

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatibilities: Materials that react with water.
NFPA Reactivity Hazard Class: 0 = Insignificant
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Short – Term Effects of Exposure

Route of Entry
Acute Effects – Eye: Slight, transient
Acute Effects – Skin Contact: No hazard in normal industrial use.
Acute Effects – Inhalation: No hazard in normal industrial use.
Acute Effects – Ingestion: No hazard in normal industrial use.

Long – Term Effects of Exposure

Effect of Chronic Exposure: The toxicological properties of this product have not been fully evaluated.
Use of good industrial hygiene practices is required. Avoid direct contact
with skin or eyes. Do not ingest or inhale.
Target Organs: Not applicable
Carcinogenicity None

12. ECOLOGICAL INFORMATION

Potential to Bioaccumulate: Unknown
Aquatic Toxicity: None established

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Waste disposal should be in accordance with existing Federal, State, and Local environmental regulations.
Empty Container Warnings: Empty containers may contain product residue; follow MSDS and label Warnings even after they have been emptied.

Duncan Enterprises Material Safety Data Sheet – Tulip Cool Colors Block

14. TRANSPORT INFORMATION

U.S. Department of Transportation Information

DOT Shipping Name: Adhesive Glues, NOI 4620 Sub. 5
DOT Hazard Class: Non-hazardous
DOT Reportable Quantity: None

United Nations Information

U.N. Number: None
U.N. Class: None

The information provided herein may not include the impact of additional regulatory requirements (e.g., for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and / or marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material. For more complete transportation regulatory information please refer to the shipping documents accompanying the shipment of this product.

15. REGULATORY INFORMATION

TSCA: All components are on the TSCA Inventory
FDA: 21CFR175.105
SARA/Title III: This product contains no substances at or above the reported threshold under Section 313, based on available data.



Products bearing the Nontoxic Product Seal are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

16. OTHER INFORMATION

Table of Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
ASTM	American Society for Testing Materials
°C	Degrees Centigrade
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations
CWA	Clean Water Act
DOT	Department of Transportation
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
Hg	Mercury
HMIS	Hazardous Materials Identification System

Duncan Enterprises Material Safety Data Sheet – Tulip Cool Colors Block

16. OTHER INFORMATION (Continued)

Table of Abbreviations, Continued

IARC	International Agency for Research on Cancer
LD	Lethal Dose
mg / kg	Milligram per kilogram
mm	Millimeter
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
N / A	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit
TSCA	Toxic Substances Control Act
TWA	Time - Weighted Average
U.N.	United Nations
WHMIS	Workplace Hazardous Materials Information System
>	Greater Than
<	Less Than

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Disclaimer

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.