



02817-1024

Safety Data Sheet

1. COMPANY AND PRODUCT IDENTIFICATION

Duncan Enterprises
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)
www.duncan.com
www.tulipcolor.com

EMERGENCY TELEPHONE NUMBERS

Health Emergencies:
559-291-4444 7:00 am – 3:30 pm Pacific Std. 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 Fabric Markers
Product Description: Non-toxic, permanent fabric markers.
Includes all packs and tips: wide-angled, chisel, brush, bullet and fine-point.
Colors: Includes all colors.
Product Use / Restrictions: For use with most fabrics, machine washable.

2. HAZARDS IDENTIFICATION

Classification (GHS):	This mixture does not meet the criteria for classification.
Health & Physical Hazard Statement(s):	Not applicable.
Other Hazards not classified:	Not applicable.
Signal Word:	Not applicable.
Precautionary Statement(s):	Not applicable.
Pictogram(s) by GHS:	Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Detailed formulation is submitted by the client and it is proprietary information.

Reportable ingredients (if applicable):

Identity/Synonym	CAS Number:	Percentage/Range*:
Titanium dioxide	13463-67-7	< 20%
Carbon black	1333-86-4	< 10%

*The exact percentage (concentration) of composition is withheld as a trade secret.

4. FIRST AID MEASURES

On Inhalation:	Move subject to fresh air and consult a physician if irritation persists.
On Skin Contact:	Wash affected areas thoroughly with soap and water. Consult a physician if irritation persists.
On Eye Contact:	Flush eyes with large amounts of water until irritation subsides. Consult a physician if irritation persists.
On Ingestion:	Material is a solid that could constitute a choking hazard if ingested. Get immediate medical attention.
Acute/Delayed Symptoms:	No known acute/delayed symptoms.
Medical Advice:	Product is non-toxic. On complaints treat symptomatically and supportively.
Note to Physician:	No additional relevant data available.

5. FIRE FIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	CO ₂ , Dry Chemical, Foam. Use extinguishing media appropriate for surrounding fire.



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Unsuitable extinguishing media:	No known.
Protection of Firefighters	
Specific hazards arising from the chemical:	No particular hazards identified.
Special procedures/equipment for firefighters:	As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.
Hazardous combustion Products:	No additional relevant data available.

6. ACCIDENTAL RELEASE MEASURES

Emergency Containment procedures:	Extinguish all ignition sources. Avoid sparks, flames, heating, and smoking. Ventilate. Avoid inhalation of vapors and contact with skin and eyes. Wear suitable protective clothing.
Environmental Precautions, if any:	Do not allow to enter drains, sewers, or water courses.
Methods for Cleaning Up:	Clean up in accordance with all applicable regulations. Remove source of ignition. Absorb spillage with non-combustible, absorbent material. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.
Personal Protective Equipment:	See section 8 of this SDS.

7. HANDLING AND STORAGE

Safe Storage:	Store in a cool, dry area that is away from heat or open flame. Keep out of direct sunlight.
Safe Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes. Avoid ingestion and inhalation. Keep container closed when not in use.
Known Incompatibilities:	None known.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Titanium dioxide	10 mg/m ³ TWA; Appendix A4 - Not Classifiable as a Human Carcinogen	15 mg/m ³ TWA	5,000 mg/m ³
Carbon black	3.5 mg/m ³ TWA (inhalable particulate matter)	TWA 3.5 mg/m ³	TWA 3.5 mg/m ³ Ca TWA 0.1 mg

Appropriate Engineering Controls: Individual Protection measures, such as PPE (Personal Protective Equipment): General ventilation.

Personal Protection Equipment:	
General:	This product is classified as non-hazardous. However, the usual precaution of harmful chemicals must be observed to avoid contact with the skin, eyes, and respiratory tract,
Respiratory Protection:	Common respiratory protection is not necessary.
Eye Protection:	Common eye protection not necessary, eye contacts should be avoided.
Hand Protection:	If desired, gloves for low mechanic and substantial stress are sufficient.
Skin Protection:	Skin protection products are not as effective as protective gloves. Protective gloves



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General Safety and Hygiene Measures:	to adequately protect the skin during use with chemicals are suitable, if preferred. On using do not eat, drink, or smoke. Avoid aspiration of dust. Change contaminated clothes and do not reuse it until laundered.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Liquid
Color:	Varies
Odor:	Odorless.
Odor Threshold:	No data.
pH:	No data.
Boiling Point/Range:	No data.
Melting Point/Range:	Not applicable.
Flash Point:	Not available.
Evaporation Rate:	No data.
Vapor Density:	Not applicable.
Solubility(ies):	Soluble in water.
Vapor Pressure:	Not applicable.
Relative Density:	Not available.
Specific Gravity (Water=1):	Not available.
Viscosity:	Not available.
Partition Coefficient (n-octanol/water), if applicable:	Not available.
Explosive Properties:	No data.
Flammability: (Solid, gas)	Not applicable.
Flammability Limit in Air: Upper/Lower	No data.
Autoignition temperature:	Unknown.
Decomposition temperature:	No data.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of use.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, various organic compounds.
Possibility of Hazardous Reactions/Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:	
Eye Contact – Serious Eye Damage or Irritation	This product is not expected to cause toxicity or be irritating to skin or eyes.
Skin Contact – Skin Corrosion, Sensitization or Irritation:	This product is not expected to cause toxicity or be irritating to skin or eyes.
Ingestion – Carcinogenicity/Aspiration Hazard:	This product is not expected to cause toxicity.
Inhalation – Respiratory Sensitization/Toxicity:	This product is not expected to cause toxicity.



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Symptoms of exposure:	No additional relevant data available.		
Information on toxicological effects:	On appropriate handling and use as intended and on current information the product doesn't cause any effects harmful to human health.		
Delayed or Immediate effects:	No additional relevant data available.		
Germ Cell Mutagenicity:	No additional relevant data available.		
Specific target organ toxicity (single exposure):	No additional relevant data available.		
Specific target organ toxicity (repeated exposure):	No additional relevant data available.		
Chemicals listed on NTP, IARC or OSHA as a Carcinogen:	Not listed by NTP, IARC or OSHA as a carcinogen.		
Chemical Name:	Oral LD50	Dermal LD50	Inhalation LC50
Carbon black	> 15400mg/kg (15400mg/kg) rat	> 3gm/kg (3000mg/kg) rabbit	-

*Estimates for product may be based on additional component data not shown.

12. ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity:	Small amounts of this product are not expected to cause toxicity to the environment. Components of this material are not biomagnified or bioconcentrated in the environment.
Persistence and degradability:	No additional relevant data available.
Bioaccumulative potential:	No additional relevant data available.
Mobility in soil:	No additional relevant data available.
Other adverse effects:	On appropriate handling and use as intended in our experience and on current information, the product doesn't cause any adverse effects to the environment.

13. DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Disposal instructions:	Dispose of in accordance with existing Federal, State and Local environment regulations.
Local disposal regulations:	No additional relevant data available.
EPA waste code(s):	No data.
Contaminated packaging:	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

14. TRANSPORTATION INFORMATION (NON-MANDATORY)

	DOT	IMDG	IATA
UN/ID number:	Not regulated.	Not regulated.	Not regulated.
Proper shipping name:	-	-	-
Transport hazard class:	-	-	-
Packing group (if applicable):	-	-	-
Environmental Provisions:	-	-	-
Special Precautions in transport:	V		
Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code	Not applicable.		
Emergency Response Guide Number:	No data.	EmS-No:	No data.



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US: -	Pictograms IATA: IMDG: -	Marine Pollutant: -
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15. REGULATORY INFORMATION (NON-MANDATORY)

US Federal Regulations:					
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):		This product is manufactured in compliance with all provisions of the Toxic Substance Control Act, 15 U.S. C.2601 et. Seq.			
CERCLA (Superfund) reportable quantity (lbs.) (40 CFR 302.4)		No known reportable CERCLA chemicals.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):		OSHA Specifically Regulated Substances are listed in Section 8 of SDS, Occupational exposure limits.			
Section 302 (EHS) Extremely Hazardous Substance (40 CFR 355, Appendix A):		No known Section 302 EHS chemicals.			
Chemical Name:	CAS Number:	Reportable Quantity:	Threshold planning quantity:	Threshold planning quantity, lower value:	Threshold planning quantity, upper value:
None	X	X	X	X	X
Superfund Amendments and Reauthorization Act of 1986 (SARA)					
SARA/Title III:		This product does not contain any substances at or above the reported threshold under Section 313, based on available data.			
SARA 304 Emergency release notification:		No chemicals subject to notification.			
SARA 311/312 (40 CFR 370) Hazardous Chemical:		No data.			
SARA 313 (TRI reporting):		<u>Chemical Name:</u> None	<u>CAS Number:</u> -	<u>% by wt.</u> -	
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15):		No data.			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (Haps) List:		No known CAA Section 112 chemicals.			
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):		Not applicable.			
Safe Drinking Water Act (SDWA):		No data.			
Canadian Domestic Substances List (DSL):		No data.			
Toxicological Review:		Our products certified by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic, cause injury, acute or chronic health problems to humans. Products are labeled in accordance with all applicable state and federal regulations including, but not limited to consumer product safety standards.			
California Proposition 65 Warning:		No special warning required under the provisions of California Proposition 65.			
EPA Clean Air / Water Act:		No data.			
EPA Hazardous Wastes:		No known EPA hazardous chemicals.			
HMIS III Rating:		No data.			
Unless a concentration is specified in Section 2 of the SDS, the above chemicals(s) are present in trace amounts.					

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).



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16. OTHER INFORMATION

The recommendations and information contained in this SDS are compiled from sources believed to represent the most current information available when the SDS was prepared. However, the manufacturer / distributor of this product do not provide any warranty, guaranty of representation as to the correctness or sufficiency of this information. If this material is used in large amounts and/or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

Table of Abbreviations			
ACGIH:	American Conference of Governmental Industrial Hygienists	LD:	Lethal Dose
ANSI:	American National Standards Institute	MARPOL:	Marine Pollution
ASTM:	American Society for Testing Materials	mg / kg:	Milligram per Kilogram
°C:	Degrees Centigrade	mm:	Millimeter
CAA:	Clean Air Act	MSHA:	Mine Safety and Health Administration
CAS:	Chemical Abstract Service	N/A:	Not Applicable
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act	NFPA:	National Fire Protections Association
CFR:	Code of Federal Regulations	NIOSH:	National Institute for Occupational Safety and Health
CPR:	Controlled Products Regulations	NTP:	National Toxicology Program
DEA:	Drug Enforcement Act	OEL:	Over Exposure Limit
DOT:	Department of Transportation	OSHA:	Occupational Safety and Health Administration
DSL:	Canadian Domestic Substances List	PEL:	Permissible Exposure Limits
EmS:	Emergency Medical Goods Services	ppm:	Parts Per Million
EPA:	Environmental Protection Agency	SARA:	Superfund Amendment and Reauthorization Act
°F:	Degrees Fahrenheit	STEL:	Short-Term Exposure Limit
FDA:	Food & Drug Administration	SDS:	Safety Data Sheet
g/l:	Grams per Liter	SDWA:	Safe Drinking Water Act
HAPs:	Hazardous Air Pollutants	TLV:	Threshold Limit Value
Hg:	Mercury	TRI:	Toxics Release Inventory
HMIS:	Hazardous Materials Identification System	TSCA:	Toxic Substances Control Act
HNOC:	Hazard(s) Not otherwise classified	TWA:	Time – Weighted Average
IARC:	International Agency for Research on Cancer	U.N.	United Nations
IATA:	International Air Transport Association	WHMIS	Workplace Hazardous Materials Information System
ID:	Identification / Identity	>	Greater Than
IDLH:	Immediate Danger to Life or Health	<	Less Than
IMDG:	International Maritime Dangerous Goods	73/78:	1973 & 1978
LC:	Lethal Concentration		

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END SAFETY DATA SHEET