

Name: Green Label Silk Dyes

SDS No: All Colors **Date:** 6/6/15

1. Chemical, Product and Company Identification

Product Name: Silk Colors Green Label

Catalog Codes: NA

CAS#: NA

TSCA: COMPLIANCE

CI#: NA

Synonym: REACTIVE DYESTUFF

Chemical Name: Vinyl Sulphones

Chemical Formula: 701, 703, 706, 710, 712, 714, 715, 717, 718, 721, 722, 723, 725, 730, 732, 735, 736, 745, 750, 759

Contact Information:

Rupert Gibbon & Spider

1147 Healdsburg Rd

Healdsburg, CA 95448

800-442-0455

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 800-442-0455

2. Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
REACTIVE DYESTUFF		
ACEDIC ACID 1.5%		

Toxicological Data on Ingredients:

3. Hazards Identification

Routes of Entry: INHALATION:YES, SKIN ABSORPTION:NO, INGESTION: NO

SKIN CONTACT: YES, EYE CONTACT:YES

Potential Acute Health Effects: When tested on guinea pigs, this product has shown a positive skin sensitization potential. This product has caused respiratory sensitization in some individual cases after repeated exposure.

Signs and Symptoms of Exposure: Skin sensitization may include one or more of the following: redness, swelling, itching, rash and hives. Respiratory sensitization can range from runny nose, cough, and irritated eyes to asthmatic symptoms. These effects can lead to shock and cardiovascular collapse and are potential lethal.

Medical Conditions Aggravated: Persons with any pre-existing skin or eye conditions may be more susceptible to the effects of this product.

Carcinogenic: IARC:NO, NTP: NO, OSHA: NO, ACGIH: NO

4. First Aid Measures

General Information: Immediately remove all contaminated clothing

Eye Contact: Wash immediately with large amounts of water for 15 minutes, lifting the upper and lower lids until no evidence of product remain. Get medical attention immediately. Do not wear contact lenses while handling.

Ingestion: Dilute with water. Get medical attention. Never give fluids or induce vomiting if patient is unconscious or has convulsions.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Remove all contaminated clothing immediately. Wash immediately with soap and plenty of water. If a temporary skin reaction occurs, it should be treated as allergic contact dermatitis. Launder contaminated clothing before reuse.

Section 5: Fire and Explosion Data

Flammability of the Product: NA

Auto-Ignition Temperature: NA

Flash Points: Not Applicable

Flammable Limits: NA

Products of Combustion: NA

Fire Hazards in Presence of Various Substances: NA

Explosion Hazards in Presence of Various Substances: NA

Fire Fighting Media and Instructions: CO₂, Dry Chemical, Foam, Water

Special Remarks on Fire & Explosion Hazards: Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritation fumes. In case of fire or explosion, keep unnecessary people away. Isolate hazard area & any entry. Stay upwind, out of low areas, and ventilate closed spaces before entering.

Section 6: Accidental Release Measures

Large or Small Spill: Do not empty into drains or waters. Do not touch or walk through the spilled material: stop leak if you can do it without risk. Take up with sand or other non-combustible absorbent material or suitable vacuum and place into labeled sealable containers. For further disposal measures see section 13.

Section 7: Handling and Storage

Precautions: In accord with good industrial practice. Handle with care and avoid personal contact.

Storage: In accord with good industrial practice. Handle with care and avoid personal contact.

Section 8: Exposure Controls/Personal Protection

General Protective Measures: Avoid contact with eyes and skin. Immediately remove all contaminated clothing.

Personal Protection:

Eye: Employees should wear protective eye-goggles with side protection shield.

Skin: Employees should avoid skin contact by wearing protective clothing. Long sleeve shirts, pants, gloves e.g. fo PVC or nitrile rubber, and booths are recommended. Additional protections such as impervious suits are recommended when the potential of dermal contact is significant. Employees should wash their hands and face before eating and drinking and shower thoroughly before leaving work. Keep away from food and drink stuffs.

Respiratory: Inhalation of dust and aerosols must be absolutely prevented by the use of a NIOSH approved dust respirator.

Ventilation: Use local ventilation.

Other: Wear overalls, apron or other protective clothing.

Personal Protection in Case of a Large Spill: Gloves, & other protective clothing.

Exposure Limits: NA

Section 9: Physical and Chemical Properties

Physical state and appearance: Powder

Odor: None

Taste: NA

Molecular Weight: NA

Color: Ranges from Yellow to Dark Brown

pH (1% soln/water): Approx. 4.0 - 5.0
Boiling Point: NA
Melting Point: NA
Critical Temperature: >240 C
Specific Gravity: NA
Vapor Pressure: NA
Vapor Density: NA
Volatility: NA
Odor Threshold: NA
Water/Oil Dist. Coeff.: NA
Ionicity (in Water): NA
Dispersion Properties: NA
Solubility: +/- 70-100 g/L

Section 10: Stability and Reactivity Data

Stability: stable
Instability Temperature: No thermal decomposition when stored and handled correctly.
Conditions of Instability: NA
Incompatibility with various substances: NA
Corrosivity: Corrosive
Special Remarks on Reactivity: None expected
Special Remarks on Corrosivity: NA
Polymerization: NA

Section 11: Toxicological Information

Routes of Entry: Not available
Toxicity to Animals:
Animal Toxicity Oral – LD50 (Ingestion), >3000 mg/l (rats)
Fish, LC50, >100 mg/l (48 hour, Killifish)
Eye Effects – Non-irritant
Skin Effects – Non-irritant
Sensitization – May cause sensitization by skin contact (Guinea Pig).
Chronic Effects on Humans: Not available
Other Toxic Effects on Humans: Not available
Special Remarks on Toxicity to Animals: None
Special Remarks on Chronic Effects on Humans: None
Special Remarks on other Toxic Effects on Humans: None

Section 12: Ecological Information

Ecotoxicity: NA
BOD5 and COD: NA
Products of Biodegradation: NA
Toxicity of the Products of Biodegradation: NA
Special Remarks on the Products of Biodegradation: NA

Section 13: Disposal Considerations

Waste Disposal:
Product: If utilization or recycling of the product is not possible, it should be disposed of in accordance with existing federal, M state and local environmental regulations, e.g. by incineration in a suitable plant.
Uncleaned Packaging: Soiled, empty containers are to be treated in the same way as the contents.

Section 14: Transport Information

DOT Classification: Not regulated
Identification: Non-hazardous Ink Material
Special Provisions for Transport:
Fr. Class Package: 55

Section 15: Other Regulatory Information**Federal and State Regulations:**

TSCA: The components of this product are listed on the TSCA Inventory
SARA 313: This product is not subject SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA 312:

Immediate (acute) health hazard – Yes
Delayed (chronic) health hazard – Yes
Fire hazard – No
Sudden Release of Pressure – No
Reactivity – No

California Proposition 65: This product does not contain any components currently on the California List of Known Carcinogens and reproductive Toxins.

Other Regulations: Label in accordance with the EEC directives:

Hazard Symbols: Xn Harmful
R 42/43: May cause sensitization by inhalation and skin contact
S22: Do not breathe dust
S24: Avoid contact with skin
S37: Wear suitable gloves

This product is not subject to the German Ordinance that bans certain azo dyes or the 19th Amendment of the Council Directive 76/769/EEC

Other Classifications:

WHMIS (Canada):

DSCL (EEC):

HMIS (U.S.A.):

Health Hazard: Yes (Acute)

Fire Hazard: NA

Reactivity: NA

Personal Protection: Gloves

National Fire Protection Association (U.S.A.): NA

Health: NA

Flammability: NA

Reactivity: NA

Specific hazard: NA

Protective Equipment: NA

Section 16: Other Information

The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

SAFETY DATA SHEET (SDS)



Jacquard Products
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Gutta Resist - Pg 1

Revision Date: 02/05/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	GUTTA RESIST	
Product Number/Code:	780-783 (ALL COLORS)	
Recommended Use:	Resin used for silk – painting arts	
Product class:	Solvent-based rubber adhesive	
Restrictions on use:	None known	
Manufacturer:	Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Ave. Healdsburg, CA 95448 1-800-442-0455 / 707-433-9577	
Emergency Number:	ChemTel, Inc. - Contract #MIS9128344	
	North America: 1-800-255-3924	International: 1-813-248-0585

SECTION 2 - HAZARD(S) IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200		
Toxicological Data on Ingredients:		
Hazard Classification		
Physical Hazards:	Flammable liquids	Category 2
Health Hazards:	Skin Corrosion/Irritation	Category 2
	Skin Irritation/Eye Damage/Irritation	Category 2A
	Reproductive Toxicity	Category 2
	Specific Target Organ Toxicity, Single Exposure (STOT SE) - Central nervous system	Category 3
	Specific Target Organ Toxicity, Repeated Exposure (STOT RE) - Central nervous system , Peripheral nervous system	Category 2
	Aspiration hazard	Category 1
Environmental Hazards:	Acute hazards to the aquatic environment	
Label Elements		
Pictogram:		
Signal Words:	Danger, Warning	

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Hazard Statements-EU:	<p>H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.</p>
Precautionary Statements-EU:	
Prevention:	<p>P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/gas/mist/vapours. P264 Wash with plenty of water and soap thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.</p>
Response:	<p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.</p>
Storage:	<p>P233 Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.</p>
Disposal:	<p>P501 Dispose of contents/container to hazardous or special waste collection point.</p>
<p>Hazard/s/ not otherwise classified: According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200</p>	

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Potential health effects	
Carcinogenicity:	
For Component: VMP Naphtha	
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.
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.
For Component: Isopropanol	
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.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
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.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	% by Weight	ACGTH-TLV	OSHA-PEL	EINECS number	CAS #
Aliphatic Petroleum Distillates	76.5 - 88	300 ppm	300 ppm	289-220-8	64742-89-8
Isopropyl Alcohol	1.8 - 2	400 ppm	400 ppm	200-661-7	67-63-0
Propylene Glycol Mono Methyl Ether	3 - 3.5				108-65-6
Carbon Black	1.5 - 2				1333-86-4
Talc	0.1 - 0.5				14807-96-6
Ethyl Benzene	0.01 - 0.1				100-41-4
Aluminum Flake	0 - 10				7429-50-9
Petroleum Distillates	< 2			270-093-2	68410-97-9
Petroleum Benzine	< 85			265-151-9	64742-49-0
Copper	0 - 9.6				7440-50-8
Zinc	0 - 3.4				7440-66-6
Aluminum	0 - 0.1				7429-90-5

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SECTION 4 - FIRST AID MEASURES

General information:	
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact:	In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Call physician if irritation develops or persists. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse.
Eye contact:	In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that the eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.
Ingestion:	If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION 5 - FIREFIGHTING MEASURES

General fire hazards:	
Suitable (and unsuitable) extinguishing media:	
Suitable extinguishing media:	Use water, foam or dry chemicals.
Unsuitable extinguishing media:	N/A
Specific hazards arising from the chemical	
Special protective equipment precautions for firefighters:	
Special fire fighting procedures:	Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.
Special protective equipment for fire fighters:	N/A
Unusual Fire/Explosion Hazards:	Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback. Vapors or fumes may form explosive mixture with air.
Hazardous Thermal Decomposition Products:	In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids, nitrogen oxides, ammonia, amines.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up spilled product:	Contain spill. If spilled in an enclosed area ventilate. Wear proper personal protective clothing and equipment. Do not flush liquid in public sewer, water systems or surface waters. Recover as much as possible and absorb remainder with inert material. Place into labeled containers and store in safe locations for proper disposal. Wash spilled areas with soap and water.
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SECTION 7 - HANDLING AND STORAGE

Storage Temperature:	Minimum: 5°C (41°F)	Maximum: 40°C (104°F)
Precautions for safe handling:	Avoid eye contact, repeated or prolonged skin contact or inhalation of aerosol, mist or vapors. Wash thoroughly after handling. Use in well ventilated areas.	
Conditions for safe storage including any incompatibilities:	Keep containers closed when not in use. Do not store in open, unlabeled or mislabeled containers. Product is not reactive or degraded by moisture, however protect from moisture contamination for performance purposes.	

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:				
Occupational exposure limits:	ACGIH-TWA	ACGIH-STEL	OSHA-TWA	OSHA-STEL
Isopropanol	200 ppm	400 ppm	400 ppm	500 ppm
Distillates, pet, lt dist hydrotreat Process, low-boil AND/OR Naphtha (pet), hydrotreated lt AND/OR Solvent Naphtha (pet), it aliph.	N/E	N/E	500 ppm	N/E
Appropriate engineering controls:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.			
Individual protection measures (such as personal protective equipment):				
Eye/face protection:	Chemical safety goggles or safety glasses with side-shields. Chemical safety goggles/safety glasses			
Skin protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory:	Use a properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and safe working limits of the known respirator.			
Hand:	Permeation resistant gloves, Butyl rubber gloves, Nitrile rubber gloves, Neoprene gloves.			
Additional Protective Measures:	Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Store separate from food products.			

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and physical state:	Paste
Color:	N/A
Upper/lower flammability or explosive limits:	N/A
Odor:	Hydrocarbon-like
Vapor pressure:	N/A
Odor threshold:	N/A
Vapor density:	Heavier than air
pH:	N/A
Relative density:	N/A
Melting point/freezing point:	N/A
Solubility(ies):	N/A
Initial boiling point and boiling range:	180°F / 82 °C
Flash point:	54° F / 12 °C
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	N/A
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Solubility(ies):	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
% Volatile by Weight:	86.0 %
Specific Gravity:	0.79
Lb.VOC/Gal. Coating:	5.56
VOC g/l:	666.23

SECTION 10 - STABILITY AND REACTIVITY

Stability:	This product is stable under normal storage and use conditions.
Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong oxidizing agents, excessive heat.
Hazardous Decomposition Products:	Decomposition of the dry solids may generate irritating vapors, CO ₂ , CO.

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SECTION II - TOXICOLOGICAL INFORMATION

Toxicity Data for XS-4139-N		
Toxicity Note:	No data available for this product.	
	Component: 67-63-0	
Toxicity Data for Isopropanol		
Acute Oral Toxicity:	LD50 (rat): 5,045 mg/kg	
Acute Inhalation:	LC50 (rat): 16,000 ppm	
Acute Dermal Toxicity:	LD50 (rabbit): 12,800 mg/kg	
Skin Irritation:	Species: Rabbit Result: Mild skin irritation.	
Eye Irritant:	Species: Rabbit Result: Irritating to eyes.	
Respiratory or Skin Sensitization:	No data available.	
Germ cell mutagenicity:		
Genetic Toxicity in vitro:	Test Type: Ames test Test species: Salmonella typhimurium Result: negative	
Genotoxicity in vivo:	Test Type: In vivo micronucleus test Test species: mouse Method: OECD Test Guideline 474 Result: negative	
	Test Type: Dominant lethal assay Application Route: mouse (male) Method: Inhalation (vapour) Exposure time: 6 h/d, 5 d/wk for 8 wks Dose: 0, 100, 400 ppm Result: negative	
Germ cell mutagenicity-		
Assessment:	Did not show mutagenic effects in animal experiments.	
Carcinogenicity:	Species: rat NOAEL: 5,000 ppm Method: OECD Test Guideline 451	
Carcinogenicity-Assessment: Not classified as a human carcinogen.		
Toxicity to Reproduction/Fertility:		
Reproductive toxicity		
Assessment:	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.	
STOT (Specific Target Organ Toxicity) – single exposure (Isopropanol): Component: 67-63-0		
Exposure routes:	Target Organs:	Assessment:
Inhalation	Central nervous system	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

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STOT (Specific Target Organ Toxicity) – repeated exposure (Isopropanol): Component: 67-63-0		No data available.	
Toxicity Data for VMP Naphtha: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:			
Acute Oral Toxicity:		LD50: >5,000 mg/kg Species: (rat, male and female) Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity.	
Acute inhalation toxicity:		Assessment: The component/mixture is toxic after short-term inhalation.	
Acute dermal toxicity:		LD50: >2,000 MG/KG Species: (rabbit, male and female) Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity.	
Skin irritation: Component 68410-97-9 / 64742-49-0 / 64742-89-8:		Species: Rabbit Exposure time: 4 h Result: Irritating to skin. Remarks: May cause skin irritation in susceptible persons.	
Eye irritation: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:		Species: Rabbit Result: Irritating to eyes.	
Respiratory or Skin Sensitization: Component: 68410-97-9/64742-49-0/64742-89-8:		Test Type: Buehler Test Species: Guinea pig Result: Did not cause sensitization on laboratory animals.	
Germ Cell Mutagenicity: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:		Germ cell mutagenicity-Assessment: Mutagenicity classification not possible from current data.	
Carcinogenicity: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:		Carcinogenicity-Assessment: Carcinogenicity classification not possible from current data.	
Toxicity to Reproduction/Fertility: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:		Reproductive toxicity-Assessment: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.	
STOT (Specific Target Organ Toxicity) – single exposure (VMP Naphtha) Component: 68410-97-9/64742-49-0/64742-89-8:			
Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	-
STOT (Specific Target Organ Toxicity) – repeated exposure (VMP Naphtha) Component: 68410-97-9/64742-49-0/64742-89-8:			
Exposure routes:	Target Organs:	Assessment:	Remarks:
	Central nervous system, Peripheral nervous system	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.	-

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Repeated dose Toxicity: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:	Species: Rat, male and female NOAEL: 1402 Application Route: inhalation (vapour) Test atmosphere: vapour Exposure time: 13 Number of exposures: 6 hours/day, 5 day Dose: 322, 1402, 9869 mg/m3 GLP: yes Target Organs: Kidney Symptoms: Nasal and ocular discharge
Aspiration toxicity: Component:+ 68410-97-9 / 64742-49-0 / 64742-89-8:	May be fatal if swallowed and enters airways.

SECTION 12 - ECOLOGICAL INFORMATION

Ecological Data for XS-4139-N:	
Additional Ecotoxicological Remarks:	No data available for this product.
Ecological Data for VMP Naphtha:	
Ecotoxicity: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:	
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l Exposure time: 96 h Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test Type: Immobilization Analytical monitoring: yes
Toxicity to algae:	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l Exposure time: 96 h Test Type: static test
Ecotoxicology Assessment:	
Acute aquatic toxicity:	Toxic to aquatic life.
Chronic aquatic toxicity:	Toxic to aquatic life with long lasting effects.
Persistence and degradability: Component: 68410-97-9 / 64742-49-0 / 64742-89-8:	
Biodegradability:	Concentration: 49.2 mg/l Result: Readily biodegradable Biodegradation: 77 % Testing period: 2 d Exposure time: 28 d
Mobility in soil: Component: 68410-97-9/64742-49-0/64742-89-8:	No data available
Ecological Data for Isopropanol: Ecotoxicity: Component: 67-63-0:	
Toxicity to fish:	LC50: (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	LC50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Mobility in soil: Component: 67-63-0:	No data available

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SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Instructions:	Dispose of in accordance with Federal, State and Local regulations.
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SECTION 14 - TRANSPORT INFORMATION

Land Transport (DOT):	
UN Number:	1133
UN Packing Group:	II
UN Class:	III
DOT Hazard Class:	Flammable Liquid
Sea Transport (IMDG):	
UN Number:	1133
UN Packing Group:	II
UN Class:	III
Air Transport (IATA):	
UN Number:	1133
UN Packing Group:	III
UN Class:	III

SECTION 15 - REGULATORY INFORMATION

SARA Title III Section 313:	This product contains the following substance(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (40 CFR 372).	
	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
SARA Title III 312 Hazard Category (40 CFR 311/312):	Acute Health:	Yes
	Release of Pressure:	No
	Chronic Health:	Yes
	Reactive:	No
	Fire:	Yes
US Federal Regulations (TSCA):	This product is listed on the U.S. Toxic Substance Control Act inventory of chemicals or is otherwise compliant with TSCA regulations.	

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SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	2
Flammability:	3
Reactivity:	0
Personal Protection (PPE):	B
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

Disclaimer:

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Revision Date: 02/05/2018

National Chemical Inventories:	
All components of this product are listed on the following chemical substance inventories: TSCA (USA)	
DSL	(Canada)
EINECS	(Europe)
ENCS	(Japan) ECL
	(Korea)
AICS	(Australia) NZIoC
	(New Zealand)
PICCS	(Philippines)
IECSC	(China)

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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefährdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System

SAFETY DATA SHEET (SDS)



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Permanent Dyeset Concentrate - Pg 1

Revision Date: 07/30/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	PERMANENT DYESET CONCENTRATE	
Product Number/Code:	JAC1762 / JAC2762 / JAC3762	
Recommended Use:	Textile auxiliary – fixative for dye	
Description:	Polymer in aqueous dispersion	
Synonym(s):	Dye fixative	
Restrictions on use:	None known	
Manufacturer:	Rupert, Gibbon & Spider, Inc. 1147 Healdsburg Ave. Healdsburg, CA 95448 1-800-442-0455 / 707-433-9577	
Emergency Number:	ChemTel, Inc. - Contract #MIS9128344	
	North America: 1-800-255-3924	International: 1-813-248-0585

SECTION 2 - HAZARD(S) IDENTIFICATION

Toxicological Data on Ingredients:		
Hazard Classification		
Physical Hazards:	Skin Sensitization	Category 1
Health Hazards:	Carcinogenicity	Category 2
	Specific Target Organ Toxicity (STOT) - Single Exposure	Category 1
Environmental Hazards:	Not classified	
Label Elements		
Pictogram:		
Signal Words:	DANGER	
Hazard Statements-EU:	H317 May cause an allergic skin reaction H351 Suspected of causing cancer H370 Causes damage to organs	

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Precautionary Statements-EU:	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
Response:	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P307+P311 IF EXPOSED: Call a POISON CENTER or doctor/physician. P308+P313 IF EXPOSED or concerned:: Get medical advice/attention. P321 Specific treatment (see product label) P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.
Hazard(s) not otherwise classified:	None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	Content in percent (%)*	CAS #
Methanol	< 1.5	67-56-1
Formaldehyde	< 0.375	50-00-0

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of skin contact:	Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
In the event of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
In the event of swallowing:	If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do not give sodium bicarbonate, fruit juices, or vinegar. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or poison control center. Call physician or poison control center immediately.
In the event of exposure by inhalation:	Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, acute and delayed:	The possible symptoms known are those derived from the labeling (see section 2). No additional; symptoms are known.
Notes to physician:	None known

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SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media:	Water, alcohol-resistant foam, Carbon dioxide (CO ₂), dry chemical, water spray
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the substance or mixture:	Thermal decomposition may produce oxides of carbon, nitrogen and sulfur.
Advice for fire fighters:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Contain spill. Small spills may be flushed to the sewer or absorbed on suitable absorbents. Larger spills should be collected as liquid or absorbed. Clean-up may be accomplished by flushing with water if appropriate or remove contaminated soils. Place in appropriate containers.
Methods and material for containment and clean up:	Pick up with absorbent material (eg: sand, sawdust). Rinse away rest with water.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes.
Conditions for safe storage including any incompatibilities:	Keep container closed.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters				
CAS #:	Components:	Value Type (form of exposure):	Control parameters/ permissible concentration:	Basis:
67-56-1	Methanol	TWA	200 PPM	ACGIH
	Further information: Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption.			
		STEL	250 ppm	ACGIH
	Further information: Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption.			
		TWA	200 ppm 260 mg/m3	NIOSH REL
	Further information: Potential for dermal absorption.			
		ST	250 ppm 325 mg/m3	NIOSH REL
	Further information: Potential for dermal absorption.			
		TWA	200 ppm 260 mg/m3	OSHA Z-1
	Further information: The value in mg/m3 is approximate.			
		TWA	200 ppm 260 mg/m3	OSHA PO
	Further information: Skin notation.			
		STEL	250 ppm 325 mg/m3	OSHA PO
	Further information: Skin notation.			
50-00-0	Formaldehyde	C	0.3 ppm	ACGIH
	Further information: Eye & Upper Respiratory Tract irritation, Suspected human carcinogen, Sensitizer.			
		TWA	0.016 ppm	NIOSH REL
	Further information: Potential Occupational Carcinogen, See Appendix A.			
		C	0.1 ppm	NIOSH REL
	Further information: Potential Occupational Carcinogen, See Appendix A, 15 minute ceiling value.			
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL
	Further information: Potential Occupational Carcinogen, Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol. See Appendix A.			
		C	0.1 ppm	NIOSH REL
	Further information: Potential Occupational Carcinogen, Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol. See Appendix A, 15 minute ceiling value.			
Engineering measures:		Local ventilation recommended - mechanical ventilation may be used.		
Respiratory protection:		NIOSH approved respirator- chemical cartridge respirator with appropriate cartridge, if required.		
Hand protection:		Butyl Rubber, PVC or Neoprene.		
Eye protection:		Tightly fitting safety goggles		
Skin/body protection:		Wear suitable protective equipment.		

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Liquid
Color:	Amber
Type of Odor:	Like acetic acid; weakly
Odor threshold:	Not determined
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	Approx. 212°F / 100°C
Melting Point/Freezing Point:	Not determined
Flammability Classification:	Not applicable
Flash Point:	> 200°F / 93°C - Method:TCC
Auto-ignition Temperature:	Not tested
Decomposition Temperature:	No data available
Flammability Limits (lower/upper):	Not tested
Evaporation rate:	Not determined
Vapor Pressure:	Not determined
Vapor Density (Air=1):	Not determined
Octanol/Water Partition Coefficient (log Pow):	Not determined
Specific Gravity:	N/A
Bulk Density:	N/A
Water Solubility:	Completely soluble
pH:	2.5-4.5
Viscosity (dynamic/kinematic):	Not determined
Explosive Properties:	N/A
Impact Sensitivity:	Not determined
Oxidizing Properties:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A
Relative Density:	Not determined

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Stability:	Stable
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use. Stable.
Conditions to avoid:	Oxidizer, Alkalis
Incompatible materials:	Oxidizing agents, Alkalis
Hazardous decomposition products:	When handled and stored appropriately, no dangerous decomposition products are known.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)		
Acute Oral Toxicity:	LD50 (rat): Remarks: not tested. Acute toxicity estimate: 4,000 mg/kg Method: Calculation method	
Acute Dermal Toxicity:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Acute Inhalation Toxicity:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Components:		
Methanol	67-56-1	Acute oral toxicity LDO (Humans): 428 mg/kg
Formaldehyde	50-00-0	Acute oral toxicity LD50 (rat): 800 mg/kg
Germ Cell Mutagenicity:		
Carcinogenicity:		
IARC:	Listed	
OSHA:	Listed	
NTP:	Listed	
Experience with human exposure:		
General information:	The possible symptoms known are those derived from the labeling (see section 2).	

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:		
Methanol	67-56-1	
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 19,000 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates:	LC50: > 10,000 mg/l Exposure time: 24 h	
Toxicity to bacteria:	LC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h	
Persistence and degradability:		
Methanol	67-56-1	
Biodegradability:	Exposure time: 28 d Method: OECD Test Guideline 301D	
Bioaccumulative potential:		
Methanol	67-56-1	
Bioaccumulation:	Remarks: Due to the low logPow bioaccumulation is not expected. Partition coefficient: n-octanol/water log Pow: -0.77	
Mobility in soil:	No data available	
Additional ecological information:	No data available	

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SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods:	
RCRA- Resource Conservation and Recovery Authorization Act:	No - not as sold.
Waste Code:	None
Waste from residues:	Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.

SECTION 14 - TRANSPORT INFORMATION

General Information:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN number:	Not relevant
UN proper shipping name:	Not relevant
Transport hazard class:	Not relevant
Packing group:	Not relevant
Environmental Hazards:	
Environmentally hazardous substance:	No
Special precautions for user:	Not relevant

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:			
EPCRA (Emergency Planning and Community Right-to-Know Act) - CERCLA Reportable Quantity:			
Component:	CAS #:	Component RQ (lbs):	Calculated Product RQ (lbs):
Formaldehyde	50-00-0	100	20,000
SARA 311/312 Hazards:	Acute Health Hazard; Chronic Health Hazard		
SARA 302:	The following components are subject to reporting levels established by SARA Title III, Section 302:		
	Formaldehyde	50-00-0	< 0.375%
SARA 313:	This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR372. Any such toxic chemical(s) are shown below. This information must be included in all SDS's that are copied and distributed for this material.		
	Methanol	67-56-1	< 1.5%
	Formaldehyde	50-00-0	< 0.375%
CA Proposition 65:	WARNING: This product can expose you to chemicals including methanol and formaldehyde which are known to the State of California to cause cancer and developmental harm. For more information, go to www.P65Warnings.ca.gov .		
	Methanol	67-56-1	< 1.5%
	Formaldehyde	50-00-0	< 0.375%
Clean Water Act:	Contains no known priority pollutants at concentrations greater than 0.1%.		
The components of this product are reported in the following inventories:	TSCA : On TSCA Inventory AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZioC (New Zealand), PICCS (Philippines), TSCA (USA)		

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SECTION 16 - OTHER INFORMATION

This product has not been evaluated for FDA regulatory requirements.	
HMIS Hazard ID:	
Health:	No information available
Flammability:	No information available
Reactivity:	No information available
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

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