



01288-1009

01228-3750

SAFETY DATA SHEET

PRINT DATE: 5/6/15

1. PRODUCT IDENTIFICATION

PRODUCT NAME JACQUARD ACID DYE HOT FUCHSIA
PRODUCT CODE NUMBER ..#620
CHEMICAL FAMILY XANTHENE
T.S.C.A. STATUS CCOMPLIANCE
PRIMARY PRODUCT USE. TEXTILE MANUFACTURING
MANUFACTURED BY..... RUPERT, GIBBON & SPIDER, INC.
1147 HEALDSBURG AVENUE
HEALDSBURG, CA 95448
PHONE: 800-442-0455
POISON CONTROL: 800-222-1222

2. HAZARDS IDENTIFICATION**Warning: Suspected of causing genetic defects (ingestion)**

This product contains a substance evaluated as a Category 2 Mutagen based upon in vitro animal studies.

PRIMARY ROUTE OF EXPOSURE

INHALATION:	YES	SKIN ABSORPTION:	NO	INGESTION:	NO
SKIN CONTACT:	YES	EYE CONTACT:	YES		

CARCINOGEN STATUS

IARC:	NO	NTP:	NO	OSHA:	NO
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HMIS: 100E**CHRONIC EFFECTS OF OVEREXPOSURE**

Contains Acid Red 052.. Has been found to be mutagenic in hamster cell tests in vitro. The relevance to humans is not known

SIGNS AND SYMPTOMS OF OVEREXPOSURE

May be irritating to the eyes, skin, and respiratory tract.

MEDICAL CONDITIONS AGGRAVATED

Persons with any pre-existing skin, eye or respiratory condition may be more susceptible to the effects of this product.



3. HAZARDOUS INGREDIENTS

Acid Red 52 (3520-42-1) > 30% In vitro mutagen in animal tests

The exact ingredient percentages and composition has been withheld as a trade secret.

4. EMERGENCY AND FIRST AID PROCEDURES

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.

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.

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.

5. FIRE AND EXPLOSION DATA

FLASH POINTNot Applicable

EXTINGUISHING MEDIACO2 Dry Chemical Foam Water Fog

SPECIAL FIRE FIGHTING PROCEDURES/UNUSUAL FIRE OR EXPLOSION HAZARDS:

Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating 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.

ADDITIONAL INFORMATION.....Avoid dusting conditions. May form explosive dust mixtures with air.

6. SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED/SPILLED:

Avoid formation and deposition of dust. 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.

7. SPECIAL PRECAUTIONS AND STORAGE DATA

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

8. EMPLOYEE PROTECTION RECOMMENDATIONS

GENERAL PROTECTNE MEASURES:

Do not breathe dust. Avoid contact with eyes and skin. Immediately remove all contaminated clothing.



EYE PROTECTION Employees should wear protective eye-goggles with side protection shield.

SKIN PROTECTION Employees should avoid skin contact by wearing protective clothing. Long sleeve shirts, pants, gloves e.g. of PVC or nitrile rubber, and boots are recommended. Additional protections such as impervious suits are recommended when the potential for 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 PROTECTION 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.

9. PHYSICAL DATA

APPEARANCE POWDER

COLOR RED

ODOR NONE

ODOR THRESHOLD.....NA

SOLUBILITY IN WATER 10 g/l at 30 deg C

BULK DENSITY ND

VISCOSITY.....NA

pH 6.5-8.0 @ 1.0 g/l

MELTING POINT/FREEZING POINT.....NA

PARTITION COEFFICIENT: N-OCTANOL/WATER.....ND

BOILING POINT.....NA

VAPOR PRESSURE.....NA

VAPOR DENSITY.....NA

EVAPORATION RATE.....NA

FLAMMABILITY.....NA

FLASH POINT.....NA

IGNITION TEMP..... NA

DECOMPOSITION TEMPERATURE....ND

UEL.....NA

LEL.....NA

%VOLATILE:	VALUE: ND	UNIT: %	COMMENT:
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10. REACTIVITY DATA

THERMAL DECOMPOSITION: No thermal decomposition when stored and handled correctly.

HAZARDOUS REACTIONS : None expected

CHEMICAL STABILITY.....Stable

INCOMPATIBLE MATERIALS: None

HAZARDOUS DECOMPOSITION PRODUCTSCO₂, CO, SULFUR OXIDES, NITROGEN OXIDES

CONDITIONS TO AVOID.....Avoid dusting conditions and sparks/flame.

HAZARDOUS POLYMERIZATION....Will not occur

**11. TOXICOLOGICAL DATA**

ANIMAL TOXICITY ORAL - LD50 (INGESTION) > 5000 mg/kg (RAT)
FISH, LC50..... 450 mg/l (48 hour, Rainbow trout)
EYE EFFECTS NON-IRRITANT (RABBIT EYE)
SKIN EFFECTSNON-IRRITANT (RABBIT)
SENSITIZATIONNOT A SENSITIZER (RIPT- HUMANS)

12. ECOLOGICAL DATA

BIODEGRADABILITY: < 10%
COD: 1389 mg/g
BACTERIA TOXICITY: > 300 mg/1 (Inhibition Activited sludge bacteria)
AOX: 0.0%

13. DISPOSAL CONSIDERATIONS

PRODUCT:..... If utilization or recycling of the product is not possible, it should be disposed of in accordance with existing federal, 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.

14. SHIPPING DATA

PROPER SHIPPING NAME: NON-HAZARDOUS INK MATERIAL
D.O.T. HAZARD CLASSIFICATION: NOT REGULATED
FRT. CLASS PACKAGE: 55

IATA (C, P): NON-HAZARDOUS

IMDG: NON-HAZARDOUS

15. REGULATORY DATA

US REGULATIONS:

TSCA: The components of this product are listed on the TSCA Inventory

SARA 313: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA312:	Immediate (acute) health hazard	Yes
	Delayed (chronic) health hazard	No
	Fire hazard	No
	Sudden Release of Pressure	No
	Reactivity	No



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.

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

16. OTHER INFORMATION

Rupert, Gibbon & Spider, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in its directions for use, subject to the inherent risks referred to in the material safety data sheet for this product. Rupert, Gibbon & Spider, Inc. makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall Rupert, Gibbon & Spider, Inc. be liable for consequential, special, or indirect damages resulting from the use or handling of this product.

Created: September 25, 2009

Revised: May 6, 2015



01288-7630

SAFETY DATA SHEET

ISSUE DATE: 10/5/09

REVISED DATE: 5/9/23

1. PRODUCT IDENTIFICATION

PRODUCT NAME..... JACQUARD ACID DYE CHARTREUSE
PRODUCT CODE NUMBER.... #628
CHEMICAL FAMILY..... ANTHRAQUINONE, PHTHALOCYANINE
T.S.C.A. STATUS..... IN COMPLIANCE
PRIMARY PRODUCT USE..... TEXTILE MANUFACTURING
MANUFACTURED BY..... RUPERT, GIBBON & SPIDER, INC.
1147 HEALDSBURG AVENUE
HEALDSBURG, CA 95448
PHONE: 800-442-0455
POISON CONTROL: 800-222-1222

2. HAZARDS IDENTIFICATION

GHS Classification
NON-CATEGORIZED

GHS Labeling
Signal Word: NONE
Hazard Pictogram: NONE
Hazard Statement: NONE

Precautionary Statements:

P264: Wash face, hands, and any exposed skin thoroughly after handling.
P280: Wear protective gloves/ protective clothing/eye protection/face protection
P270: Do not eat, drink, or smoke when using this product.
P260: Do not breathe dust/fume/gas/mist/vapors/spray
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water for 15 minutes .
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing.

PRIMARY ROUTE OF EXPOSURE

INHALATION:	YES	SKIN ABSORPTION:	NO	INGESTION:	NO
SKIN CONTACT:	YES	EYE CONTACT:	YES		

CARCINOGEN STATUS

IARC:	NO	NTP:	NO	OSHA:	NO
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HMIS: 11 0 E

CHRONIC EFFECTS OF OVEREXPOSURE
None Known

PRODUCT: JACQUARD ACID DYE #628**PAGE 1**

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

May be irritating to the eyes and respiratory tract.

MEDICAL CONDITIONS AGGRAVATED

Persons with any pre-existing skin, eye or respiratory condition may be more susceptible to the effects of this product.

3. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS: NONE

The exact ingredient percentages and composition has been withheld as a trade secret.

4. EMERGENCY AND FIRST AID PROCEDURES

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.

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.

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.

5. FIRE AND EXPLOSION DATA

FLASH POINT Not Applicable

EXTINGUISHING MEDIA C02 Dry Chemical Foam Water Fog

SPECIAL FIRE FIGHTING PROCEDURES/UNUSUAL FIRE OR EXPLOSION HAZARDS:

Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating 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.

ADDITIONAL INFORMATION Avoid dusting conditions. May form explosive dust mixtures with air.

6. SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED/SPILLED:

Avoid formation and deposition of dust. 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.

7. SPECIAL PRECAUTIONS AND STORAGE DATA

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



8. EMPLOYEE PROTECTION RECOMMENDATIONS

GENERAL PROTECTNE MEASURES:

Do not breathe dust. Avoid contact with eyes and skin. Immediately remove all contaminated clothing.

EYE PROTECTION Employees should wear protective eye-goggles with side protection shield.

SKIN PROTECTION Employees should avoid skin contact by wearing protective clothing. Long sleeve shirts, pants, gloves e.g. of PVC or nitrile rubber, and boots are recommended. Additional protections such as impervious suits are recommended when the potential for 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 PROTECTION 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.

9. PHYSICAL DATA

APPEARANCE POWDER

COLOR DARK GREEN

ODOR NONE

ODOR THRESHOLD NA

SOLUBILITY IN WATER 35 -40 g/l @ 100 C

BULK DENSITY ND

VISCOSITY NA

pH 6 -7 @ 10 g/l at 20C

MELTING POINT/FREEZING POINT NA

PARTITION COEFFICIENT: N-OCTANOL/WATER ND

BOILING POINT NA

VAPOR PRESSURE NA

VAPOR DENSITY NA

EVAPORATION RATE NA

FLAMMABILITY NA

FLASH POINT NA

INGINITION TEMP NA

DECOMPOSITION TEMPERATURE ND

UEL NA

LEL NA

%VOLATILE: VALUE: 0.00

UNIT: %

COMMENT:

**10. REACTIVITY DATA**

THERMAL DECOMPOSITION: No thermal decomposition when stored and handled correctly.

HAZARDOUS REACTIONS: None expected

CHEMICAL STABILITY.....Stable

INCOMPATIBLE MATERIALS: None

HAZARDOUS DECOMPOSITION PRODUCTS..... CO₂, CO, SULFUR OXIDES, NITROGEN OXIDES

CONDITIONS TO AVOID.....Avoid dusting conditions and sparks/flame.

HAZARDOUS POLYMERIZATIONWill not occur

11. TOXICOLOGICAL DATA

ANIMAL TOXICITY ORAL - LD₅₀ (INGESTION) > 5000 mg/kg (Rat)

FISH, LC₅₀..... 100-500 mg/l (48 hour Rainbow Trout)

EYE EFFECTS SLIGHT-IRRITANT (RABBIT EYE)

SKIN EFFECTS NON-IRRITANT (RABBIT)

SENSITIZATIONNOT EXPECTED

12. ECOLOGICAL DATA

BIODEGRADABILITY: 25-50% (TOC)

BACTERIA TOXICITY IC %: > 1000 mg/l (activated sludge)

13. DISPOSAL CONSIDERATIONS

PRODUCT:.....If utilization or recycling of the product is not possible, it should be disposed of in accordance with existing federal, 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.

14. SHIPPING DATA

PROPER SHIPPING NAME: NON-HAZARDOUS INK MATERIAL

D.O.T. HAZARD CLASSIFICATION: NOT REGULATED

FRT. CLASS PACKAGE: 55

IATA (C,P): NON-REGULATED IMDG:

NON-REGULATED

**15. REGULATORY DATA****US REGULATIONS:**

TSCA: The components of this product are listed on the TSCA Inventory

SARA 313: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA 312:	Immediate (acute) health hazard	Yes
	Delayed (chronic) health hazard	No
	Fire hazard	No
	Sudden Release of Pressure	No
	Reactivity	No

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.

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

16. OTHER INFORMATION

Rupert, Gibbon & Spider, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the specific purposes referred to in its directions for use, subject to the inherent risks referred to in the material safety data sheet for this product. Rupert, Gibbon & Spider, Inc. makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall Rupert, Gibbon & Spider, Inc. be liable for consequential, special, or indirect damages resulting from the use or handling of this product.



01288-4220

SAFETY DATA SHEET

ISSUE DATE: 4/26/23

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Jacquard Acid Dye Fluorescent Yellow**PRODUCT CODE NUMBER:** 640**CHEMICAL FAMILY:** Aminoketone**T.S.C.A. STATUS:** Complies**RECOMMENDED PRODUCT USE:** Textile Manufacturing**RESTRICTED PRODUCT USE:** For Industrial Use Only**MANUFACTURED BY:**

Jacquard Products

Manufactured by Rupert, Gibbon & Spider, Inc.

P.O. Box 425 | Healdsburg, CA 95448 800. 442.0455 | Fax: 707.433.4906

www.jacquardproducts.com

EMERGENCY PHONE NUMBER: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION: NON-CATEGORIZED**SIGNAL WORD:** NONE**HAZARD PICTOGRAM:** NONE**HAZARD STATEMENT:** NONE**PRECAUTIONARY STATEMENTS:**

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink, or smoke when using this product.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.Call a **POISON CENTER** or doctor/physician if you feel unwell.

3. COMPOSITION/INFORMATION ON INGREDIENTS

No Hazardous materials are contained in this product.

The exact percentages and composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice: 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 remains. Get medical attention immediately. Do not wear contact lenses while handling.**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.

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Jacquard Products – Acid Dye Fluorescent Yellow 640

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.

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

5. FIREFIGHTING MEASURES

Flash Point: N/A

Suitable extinguishing media: CO2 Dry Chemical Foam Water Fog

Special firefighting procedures/unusual fire or explosion hazards: Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating 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. Avoid dusting conditions. May form explosive dust mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment: Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

Environmental precautions: Dust deposits should not be allowed to accumulate on surfaces as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., cleaning dusty surfaces with compressed air). Non sparking tools should be used. Prevent product from entering drains.

Methods for cleaning: Avoid dust formation. Take precautionary measures against static discharges. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Prevent product from entering drains. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid dust formation. Take precautionary measures against static discharges. Fine dust dispersed in air may ignite. Wear personal protective equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Storage conditions: Keep tightly closed in a dry and cool place.

Materials to avoid: No materials mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None specified.

Engineering measures: Handle with good industrial practices and industrial hygiene. Wash hands after use.

Eye/face protection: Safety glasses with side-shields

Skin and body protection: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole-body suit as appropriate

Respiratory protection: If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance: Powder

Color: Yellow

Odor: None

Odor threshold: N/A

Solubility in Water: 10 g/l, 100C

Bulk Density: N/D

Relative Density: N/D

pH: 6.0, 80g/l, 20C

Melting/freezing point: N/A

Partition Coefficient: N-Octanol and water, N/D

Boiling Point: N/A

Evaporation rate: N/A

Flammability: N/A

Vapor pressure: N/A

Vapor density: N/A

Solubility in other solvents: N/A

Autoignition temperature: N/A

Decomposition temperature: N/A

Viscosity, kinetic: N/A

Viscosity, dynamic: N/A

Explosive properties: N/A

Oxidizing properties: N/A

Volatile organic compounds: None

10. STABILITY AND REACTIVITY

Thermal Decomposition: None when handled correctly

Reactivity: In the case of dusty organic products the possibility of a dust explosion should always be considered

Chemical stability: Stable

Possibility of hazardous reactions: None under normal processing

Conditions to avoid: Dust formation. Take precautionary measures against static discharges.

Incompatible materials: None known based on information supplied.

Hazardous decomposition products: CO₂, CO, Sulfur Oxides, Nitrogen Oxides

11. TOXOLOGICAL INFORMATION

Animal Toxicity Oral, LD₅₀ (Ingestion): 7100 mg/kg in rats

Fish, LC₅₀: 500 mg/l 96 hours in guppies

Eye Effects: Non-irritant in rabbit eye

Skin Effects: Non-irritant in rabbit

Sensitization: Not expected

Information on toxicological effects:

Primary route of exposure: Inhalation, skin contact, eye contact

HMIS: 1 0 0 E

Skin corrosion/irritation: irritating to skin.

Eye damage/irritation: irritating to eyes.

Respiratory or skin sensitization: no information available

Germ cell mutagenicity: No information available

Carcinogenicity: Contains no ingredient listed as a carcinogen

Reproductive toxicity: No information available

12. ECOLOGICAL INFORMATION

Biodegradability: < 10 %

Bacteria Toxicity: No Inhibition level to wastewater bacteria: >5000 mg/l

AOX: 0.000%

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations. Soiled, empty containers are to be treated in the same way as the contents.

14. TRANSPORT INFORMATION

Proper Shipping Name: Non-hazardous ink material

D.O.T. Hazard Classification: Not regulated

FRT. Class Package: 55

IATA (C,P): Non-hazardous

IMDS: Non-hazardous

15. REGULATORY DATA**International:**

TSCA: Components are listed on the TSCA Inventory

U.S. Federal regulations:

SARA 313: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA 312:

Immediate (acute) health hazard: Yes

Delayed (chronic) health hazard: No

Fire hazard: No

Sudden Release of Pressure: No

Reactivity: No

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

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

16. OTHER INFORMATION

Important: While the descriptions, designs, data and Information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data Information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Rupert, Gibbon & Spider Inc. Hereunder are given gratis and Rupert, Gibbon & Spider Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given at no charge and accepted at your risk.



01288-4560

SAFETY DATA SHEET**ISSUE DATE: 4/26/23****1. PRODUCT IDENTIFICATION****PRODUCT NAME:** Jacquard Acid Dye Fluorescent Orange**PRODUCT CODE NUMBER:** 641**CHEMICAL FAMILY:** Aminoketone, Xanthene**T.S.C.A. STATUS:** Complies**RECOMMENDED PRODUCT USE:** Textile Manufacturing**RESTRICTED PRODUCT USE:** For Industrial Use Only**MANUFACTURED BY:**

Jacquard Products

Manufactured by Rupert, Gibbon & Spider, Inc.

P.O. Box 425 | Healdsburg, CA 95448 800. 442.0455 | Fax: 707.433.4906

www.jacquardproducts.com

EMERGENCY PHONE NUMBER: Chemtrec 1-800-424-9300**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATION:** Health Category 2- Mutagen**SIGNAL WORD:** Warning**HAZARD PICTOGRAM:****HAZARD STATEMENT:** Suspected of causing genetic defects**PRECAUTIONARY STATEMENTS:**

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink, or smoke when using this product.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear respiratory protection

Obtain special instructions before use

Avoid release into the environment

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.Call a **POISON CENTER** or doctor/physician if you feel unwell.

Jacquard Products – Acid Dye Fluorescent Orange 641

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Acid Dye: In vitro mutagen in animal tests

The exact percentages and composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice: 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 remains. Get medical attention immediately. Do not wear contact lenses while handling.

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.

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.

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

5. FIREFIGHTING MEASURES

Flash Point: N/A

Suitable extinguishing media: CO2 Dry Chemical Foam Water Fog

Special firefighting procedures/unusual fire or explosion hazards: Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating 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. Avoid dusting conditions. May form explosive dust mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

If material is released/spilled: Avoid formation and deposition of dust. 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.

7. HANDLING AND STORAGE

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

Storage conditions: Keep container protected from direct sunlight in a dry, cool and in a well-ventilated area. Keep the container tightly sealed and away from any incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Handle with good industrial practices and industrial hygiene. Wash hands after use.

Eye/face protection: Safety glasses with side-shields

Skin and body protection: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole-body suit as appropriate

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance: Powder

Color: Orange

Odor: None

Odor threshold: N/A

Solubility in Water: 10 g/l, 30C

Bulk Density: N/D

Relative Density: N/D

Jacquard Products – Acid Dye Fluorescent Orange 641

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pH: 6.5-8.0, 1 g/l
Melting/freezing point: N/A
Partition Coefficient: N-Octanol and water, N/D
Boiling Point: N/A
Evaporation rate: N/A
Flammability: N/A
Vapor pressure: N/A
Vapor density: N/A
Solubility in other solvents: N/A
Autoignition temperature: N/A
Decomposition temperature: N/A
Viscosity, kinetic: N/A
Viscosity, dynamic: N/A
Explosive properties: N/A
Oxidizing properties: N/A
Volatile organic compounds: None

10. STABILITY AND REACTIVITY

Thermal Decomposition: None when handled correctly
Reactivity: In the case of dusty organic products the possibility of a dust explosion should always be considered
Chemical stability: Stable
Possibility of hazardous reactions: None under normal processing
Conditions to avoid: Dust formation. Take precautionary measures against static discharges.
Incompatible materials: None known based on information supplied.
Hazardous decomposition products: CO₂, CO, Sulfur Oxides, Nitrogen Oxides

11. TOXOLOGICAL INFORMATION

Animal Toxicity Oral, LD₅₀ (Ingestion): > 5000 mg/kg in rats
Fish, LC₅₀: 450 mg/l 96 hours in rainbow trout
Eye Effects: Non-irritant in rabbit eye
Skin Effects: Non-irritant in rabbit
Sensitization: Not a sensitizer
Information on toxicological effects:
Primary route of exposure: Inhalation, skin contact, eye contact
HMIS: 1 0 0 E
Skin corrosion/irritation: irritating to skin.
Eye damage/irritation: irritating to eyes.
Respiratory or skin sensitization: no information available
Germ cell mutagenicity: Component has been found to be mutagenic in hamster cell tests in vitro. The relevance to humans is not known.
Carcinogenicity: Contains no ingredient listed as a carcinogen
Signs and symptoms of overexposure: May be irritating to the eyes, skin, and respiratory tract.
Medical conditions aggravated: Persons with any pre-existing skin, eye or respiratory condition may be more susceptible to the effects of this product.

12. ECOLOGICAL INFORMATION

Biodegradability: < 10 %
COD: 1389 mg/g
Bacteria Toxicity: No Inhibition level to wastewater bacteria: >5000 mg/l
AOX: 0.000%

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations. Soiled, empty containers are to be treated in the same way as the contents.

14. TRANSPORT INFORMATION

Proper Shipping Name: Non-hazardous ink material

D.O.T. Hazard Classification: Not regulated

FRT. Class Package: 55

IATA (C,P): Non-hazardous

IMDS: Non-hazardous

15. REGULATORY DATA**International:**

TSCA: Components are listed on the TSCA Inventory

U.S. Federal regulations:

SARA 313: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA 312:

Immediate (acute) health hazard: No

Delayed (chronic) health hazard: Yes

Fire hazard: No

Sudden Release of Pressure: No

Reactivity: No

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

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

16. OTHER INFORMATION

Important: While the descriptions, designs, data and Information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data Information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Rupert, Gibbon & Spider Inc. Hereunder are given gratis and Rupert, Gibbon & Spider Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given at no charge and accepted at your risk.



01288-3210

SAFETY DATA SHEET**ISSUE DATE: 4/26/23****1. PRODUCT IDENTIFICATION****PRODUCT NAME:** Jacquard Acid Dye Fluorescent Red**PRODUCT CODE NUMBER:** 642**CHEMICAL FAMILY:** Aminoketone, Xanthene**T.S.C.A. STATUS:** Complies**RECOMMENDED PRODUCT USE:** Textile Manufacturing**RESTRICTED PRODUCT USE:** For Industrial Use Only**MANUFACTURED BY:**

Jacquard Products

Manufactured by Rupert, Gibbon & Spider, Inc.

P.O. Box 425 | Healdsburg, CA 95448 800. 442.0455 | Fax: 707.433.4906

www.jacquardproducts.com

EMERGENCY PHONE NUMBER: Chemtrec 1-800-424-9300**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATION:** Health Category 2- Mutagen**SIGNAL WORD:** Warning**HAZARD PICTOGRAM:****HAZARD STATEMENT:** Suspected of causing genetic defects**PRECAUTIONARY STATEMENTS:**

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink, or smoke when using this product.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear respiratory protection

Obtain special instructions before use

Avoid release into the environment

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.Call a **POISON CENTER** or doctor/physician if you feel unwell.

Jacquard Products – Acid Dye Fluorescent Red 642

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Acid Dye: In vitro mutagen in animal tests

The exact percentages and composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice: 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 remains. Get medical attention immediately. Do not wear contact lenses while handling.

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.

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.

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

5. FIREFIGHTING MEASURES

Flash Point: N/A

Suitable extinguishing media: CO2 Dry Chemical Foam Water Fog

Special firefighting procedures/unusual fire or explosion hazards: Firefighters should be equipped with protective clothing & self-contained breathing apparatus to protect against potentially toxic & irritating 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. Avoid dusting conditions. May form explosive dust mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

If material is released/spilled: Avoid formation and deposition of dust. 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.

7. HANDLING AND STORAGE

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

Storage conditions: Keep container protected from direct sunlight in a dry, cool and in a well-ventilated area. Keep the container tightly sealed and away from any incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Handle with good industrial practices and industrial hygiene. Wash hands after use.

Eye/face protection: Safety glasses with side-shields

Skin and body protection: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole-body suit as appropriate

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance: Powder

Color: Red

Odor: None

Odor threshold: N/A

Solubility in Water: 10 g/l, 30C

Bulk Density: N/D

Relative Density: N/D

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pH: 6.5-8.0, 1 g/l
Melting/freezing point: N/A
Partition Coefficient: N-Octanol and water, N/D
Boiling Point: N/A
Evaporation rate: N/A
Flammability: N/A
Vapor pressure: N/A
Vapor density: N/A
Solubility in other solvents: N/A
Autoignition temperature: N/A
Decomposition temperature: N/A
Viscosity, kinetic: N/A
Viscosity, dynamic: N/A
Explosive properties: N/A
Oxidizing properties: N/A
Volatile organic compounds: None

10. STABILITY AND REACTIVITY

Thermal Decomposition: None when handled correctly
Reactivity: In the case of dusty organic products the possibility of a dust explosion should always be considered
Chemical stability: Stable
Possibility of hazardous reactions: None under normal processing
Conditions to avoid: Dust formation. Take precautionary measures against static discharges.
Incompatible materials: None known based on information supplied.
Hazardous decomposition products: CO₂, CO, Sulfur Oxides, Nitrogen Oxides

11. TOXOLOGICAL INFORMATION

Animal Toxicity Oral, LD₅₀ (Ingestion): > 5000 mg/kg in rats
Fish, LC₅₀: 450 mg/l 96 hours in rainbow trout
Eye Effects: Non-irritant in rabbit eye
Skin Effects: Non-irritant in rabbit
Sensitization: Not a sensitizer
Information on toxicological effects:
Primary route of exposure: Inhalation, skin contact, eye contact
HMIS: 1 0 0 E
Skin corrosion/irritation: irritating to skin.
Eye damage/irritation: irritating to eyes.
Respiratory or skin sensitization: no information available
Germ cell mutagenicity: Component has been found to be mutagenic in hamster cell tests in vitro. The relevance to humans is not known.
Carcinogenicity: Contains no ingredient listed as a carcinogen
Signs and symptoms of overexposure: May be irritating to the eyes, skin, and respiratory tract.
Medical conditions aggravated: Persons with any pre-existing skin, eye or respiratory condition may be more susceptible to the effects of this product.

12. ECOLOGICAL INFORMATION

Biodegradability: < 10 %
COD: 1389 mg/g
Bacteria Toxicity: No Inhibition level to wastewater bacteria: >5000 mg/l
AOX: 0.000%

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations. Soiled, empty containers are to be treated in the same way as the contents.

14. TRANSPORT INFORMATION

Proper Shipping Name: Non-hazardous ink material

D.O.T. Hazard Classification: Not regulated

FRT. Class Package: 55

IATA (C,P): Non-hazardous

IMDS: Non-hazardous

15. REGULATORY DATA**International:**

TSCA: Components are listed on the TSCA Inventory

U.S. Federal regulations:

SARA 313: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

SARA 312:

Immediate (acute) health hazard: No

Delayed (chronic) health hazard: Yes

Fire hazard: No

Sudden Release of Pressure: No

Reactivity: No

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

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

16. OTHER INFORMATION

Important: While the descriptions, designs, data and Information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data Information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Rupert, Gibbon & Spider Inc. Hereunder are given gratis and Rupert, Gibbon & Spider Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given at no charge and accepted at your risk.



01288-5300

SAFETY DATA SHEET**ISSUE DATE: 4/26/23****1. PRODUCT IDENTIFICATION****PRODUCT NAME:** Jacquard Acid Dye Blacklight Blue**PRODUCT CODE NUMBER:** 645**CHEMICAL FAMILY:** Benzenesulfonic Acid, Triphenylmethane**T.S.C.A. STATUS:** Complies**RECOMMENDED PRODUCT USE:** Textile Manufacturing**RESTRICTED PRODUCT USE:** For Industrial Use Only**MANUFACTURED BY:**

Jacquard Products

Manufactured by Rupert, Gibbon & Spider, Inc.

P.O. Box 425 | Healdsburg, CA 95448 800. 442.0455 | Fax: 707.433.4906

www.jacquardproducts.com

EMERGENCY PHONE NUMBER: Chemtrec 1-800-424-9300**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATION:**

Health Category 2: Skin corrosion/irritation. Serious eye damage/eye irritation.

Health Category 3: Specific target organ toxicity (single exposure)

Environmental Category 3: Harmful to aquatic life with long lasting effects

SIGNAL WORD: Warning**HAZARD PICTOGRAM:****HAZARD STATEMENT:**

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

< 1% of the mixture consists of ingredient(s) of unknown toxicity.

Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink, or smoke when using this product.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear respiratory protection

Obtain special instructions before use

Avoid release into the environment

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Call a **POISON CENTER** or doctor/physician if you feel unwell.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Triphenylmethane Dye Harmful to aquatic life

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice: No information available.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact: Immediate medical attention is not required. Wash off with soap and water.

Inhalation: Immediate medical attention is not required. Move to fresh air.

Ingestion: Do NOT induce vomiting. Drink plenty of water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None.

Special hazard: None known based on information supplied.

Hazardous combustion products: Carbon oxides. Nitrogen oxides (NOx).

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment: Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

Environmental precautions: Dust deposits should not be allowed to accumulate on surfaces as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., cleaning dusty surfaces with compressed air). Non sparking tools should be used. Prevent product from entering drains.

Methods for cleaning: Avoid dust formation. Take precautionary measures against static discharges. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Prevent product from entering drains. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid dust formation. Take precautionary measures against static discharges. Fine dust dispersed in air may ignite. Wear personal protective equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Storage conditions: Keep tightly closed in a dry and cool place.

Materials to avoid: No materials mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None specified.

Engineering measures:

Showers

Eyewash stations

Ventilation systems

Eye/face protection: Safety glasses with side-shields**Skin and body protection:** Wear chemical resistant footwear and clothing such as gloves, an apron or a whole-body suit as appropriate**Respiratory protection:** If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical state:** Solid**Appearance:** Powder**Color:** Blue Yellow**Odor:** Mild**Odor threshold:** No information available**pH:** N/A**Melting/freezing point:** N/A**Flash Point:** N/A**Evaporation rate:** N/A**Flammability:** N/A**Vapor pressure:** N/A**Vapor density:** N/A**Specific gravity:** 0.61**Water solubility:** soluble in water**Solubility in other solvents:** N/A**Partition coefficient:** N/A**Autoignition temperature:** N/A**Decomposition temperature:** N/A**Viscosity, kinetic:** N/A**Viscosity, dynamic:** N/A**Explosive properties:** N/A**Oxidizing properties:** N/A**Volatile organic compounds:** None**10. STABILITY AND REACTIVITY****Reactivity:** No dangerous reaction known under conditions of normal use**Chemical stability:** Stable**Possibility of hazardous reactions:** None under normal processing**Conditions to avoid:** Dust formation. Take precautionary measures against static discharges.**Incompatible materials:** None known based on information supplied.**Hazardous decomposition products:** CO₂, CO, sulfur oxides, nitrogen oxides**11. TOXOLOGICAL INFORMATION****Animal toxicity oral – LD₅₀ (Ingestion):** >5000mg/kg (rats)**Fish, LC₅₀:** 10 – 100 mg/l (48-hour Rainbow Trout)**Eye Effects:** Non-irritant (rabbit eye)**Skin Effects:** Non-irritant (rabbit)**Sensitization:** Not expected**Acute toxicity:** < 1% of the mixture consists of ingredient(s) of unknown toxicity.**Information on toxicological effects:****Skin corrosion/irritation:** irritating to skin.

Eye damage/irritation: irritating to eyes.
Respiratory or skin sensitization: irritating to the respiratory tract
Germ cell mutagenicity: no information available
Carcinogenicity: Contains no ingredient listed as a carcinogen
Reproductive toxicity: no information available
STOT – single exposure: no information available
STOT – repeated exposure: no information available
Target organs: no information available
Aspiration hazard: no information available

12. ECOLOGICAL INFORMATION

< 1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Toxicity to algae: EC50: 72 h *Desmodesmus subspicatus* 1000 mg/L EC50: 96 h *Desmodesmus subspicatus*
Toxicity to fish: no information available
Toxicity to daphnia and other aquatic invertebrates: no information available
Persistence and degradability: no information available
Bio accumulative potential: Discharge into the environment must be avoided.
Mobility in soil: no information available
Other adverse effects: no information available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT: Not regulated
MEX: Not regulated
IMDG: Not regulated
IATA: Not regulated

15. REGULATORY DATA

International:
TSCA: Complies
DSL: Complies
EINECS/ELINCS: Complies
ENCS: Complies
IECSC: Complies
KECL: Complies
PICCS: Complies
AICS: Complies
NZIoC: N/A
TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL: Canadian Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances
ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances
AICS: Australian Inventory of Chemical Substances
NZIoC: New Zealand Inventory of Chemicals
U.S. Federal regulations:
SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 to

the Code of Federal Regulations, Part 372.

SARA 312:

Immediate (acute) health hazard Yes

Delayed (chronic) health hazard No

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

16. OTHER INFORMATION

Important: While the descriptions, designs, data and Information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data Information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Rupert, Gibbon & Spider Inc. Hereunder are given gratis and Rupert, Gibbon & Spider Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given at no charge and accepted at your risk.