SAFETY DATA SHEET (SDS)

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

Revision Date: 04/26/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	**PIÑATA ALCOHOL INK (METALLIC COLORS) & CLEAN UP SOLUTION**	
Product Number/Code:	**032-036, JFC1000, JFC2000**	
Recommended Use:	Inks to color any hard surface; for clean up of alcohol inks.	
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

GHS classification in accordance with 29 CFR 1910 (OSHA HCS)		
Toxicological Data on Ingredients:		
Hazard Classification		
Physical Hazards:	Flammable liquids	Category 2
Health Hazards:	Serious eye damage/eye irritation	Category 2B
	Carcinogenicity	Category 1A
Environmental Hazards:	Hazardous to the aquatic environment, chronic hazard	Category 2
Label Elements		
Pictogram:		
Signal Words:	Danger, Warning	
Hazard Statements-EU:	H225 Highly flammable liquid and vapor. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H411 Toxic to aquatic life with long lasting effects.	

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

Precautionary Statements-EU:	
Prevention:	P201 Obtain special instructions before use. 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. P264 Wash hands thoroughly after handling. P273 Avoid release into the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P391 Collect spillage. Hazardous to the aquatic environment.
Response:	P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse SKIN with water/shower. 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. P337+P313 IF eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use carbon dioxide or dry powder, alcohol resistant foam, water in large amounts.
Storage:	P403+P235 Store in a well-ventilated place. Keep cool. P404 Store in a closed container. P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified:	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. May cause skin and eye irritation.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CLEAN UP SOLUTION		
Chemical identity	**Content in percent (%)***	**CAS #**
Ethanol	>=85 - <=95%	64-17-5
Propyl acetate	>=0 - <=5%	109-60-4
Isopropyl Alcohol	>=0 - <=5%	67-63-0
METALLIC COLORS		
Chemical identity	**Content in percent (%)***	**CAS #**
Ethanol	50 - 65%	64-17-5
Propyl acetate	0 - 3.25%	109-60-4
Isopropyl Alcohol	0 - 3.25%	67-63-0
Colored pigments (Rich Gold, Silver, Copper, Brass & Pearl)	5 - 15%	Proprietary

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Composition comments: The components are not hazardous or are below required disclosure limits.

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of skin contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
In the event of eye contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
In the event of swallowing:	Rinse mouth. Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately.
In the event of exposure by inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.
Most important symptoms and effects, acute and delayed:	No data available
Indication of any immediate medical attention and special treatment needed:	No data available

SECTION 5 - FIREFIGHTING MEASURES

General fire hazards:	No data available
Suitable extinguishing media:	Use carbon dioxide or dry powder, alcohol resistant foam, water in large amounts.
Unsuitable extinguishing media:	No data available
Special hazards arising from the substance or mixture:	No data available
Special fire fighting procedures:	No data available
Special protective equipment for firefighters:	No data available

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	No data available
Methods and material for containment and clean up:	Absorb spillage with non-combustible, absorbent material. Dike for later disposal. All equipment used when handling the product must be grounded. Eliminate sources of ignition.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Use personal protective equipment as required. Use only with adequate ventilation. Avoid breathing mists or vapors. Flammable/combustible - Keep away from oxidizers, heat and flames.
Conditions for safe storage including any incompatibilities:	No data available

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:			
Chemical identity	*Type*	*Exposure Limit Values*	*Source*
Ethanol	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2013)
	REL	1,000 ppm - 1,900 mg/m^3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,000 ppm - 1,900 mg/m^3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm - 1,900 mg/m^3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1,000 ppm - 1,900 mg/m^3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	1,910 µg/m^3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1,880 µg/m^3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	1,010 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	1,000 ppm - 1,900 mg/m^3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Propyl acetate	TWA	200 ppm	US. ACGIH Threshold Limit Values (03 2013)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (03 2013)
	REL	200 ppm - 840 mg/m^3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	250 ppm - 1,050 mg/m^3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	200 ppm - 840 mg/m^3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	250 ppm - 1,050 mg/m^3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm - 840 mg/m^3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm - 840 mg/m^3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	250 ppm - 1,050 mg/m^3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	AN ESL	835 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	1,000 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	240 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:			
Chemical identity	*Type*	*Exposure Limit Values*	*Source*
Propyl acetate	TWA PEL	200 ppm - 840 mg/m^3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	250 ppm 1,050 mg/m^3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Isopropyl Alcohol	TWA	200 ppm	US. ACGIH Threshold Limit Values (03 2013)
	STEL	400 ppm	US. ACGIH Threshold Limit Values (03 2013)
	REL	400 ppm - 980 mg/m^3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	500 ppm - 1,225 mg/m^3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	400 ppm - 980 mg/m^3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	500 ppm - 1,225 mg/m^3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm - 980 mg/m^3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	500 ppm - 1,225 mg/m^3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA	400 ppm - 980 mg/m^3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	4,920 µg/m^3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	492 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	ST ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	200 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	400 ppm - 980 mg/m^3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	500 ppm - 1,225 mg/m^3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

Biological limit values:		
Chemical identity:	Exposure Limit Values:	Source
Isopropyl Alcohol (acetone: sampling time: end of shift at end of work week)	40 mg/l (urine)	ACGIH BEL (03 2013)
Appropriate engineering controls:	No data available	
Individual protection measures, such as personal protective equipment:		
General information:	No data available	
Eye/face protection:	No data available	
Skin/hand protection:	No data available	
Respiratory protection:	No data available	
Hygiene measures:	No data available	

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Liquid
Color:	No data available
Type of Odor:	No data available
Odor threshold:	No data available
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	167-217°F / 75-103°C
Melting Point/Freezing Point:	No data available
Flammability Classification:	No data available
Flash Point:	40°F / 4°C
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flammability Limits (lower/upper):	No data available
Evaporation rate:	No data available
Vapor Pressure:	No data available
Vapor Density (Air=1):	No data available
Octanol/Water Partition Coefficient (log Pow):	No data available
Specific Gravity:	No data available
Bulk Density:	No data available
Water Solubility:	No data available
pH:	No data available
Viscosity:	No data available
Explosive Properties:	No data available
Oxidizing Properties:	No data available
Molecular Formula:	No data available
Molecular Weight:	No data available
Relative Density:	No data available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	No data available
Possibility of hazardous reactions:	No data available
Conditions to avoid:	No data available
Incompatible materials:	No data available
Hazardous decomposition products:	No data available

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)	
Acute Oral Toxicity:	ATEmix (): 3,457.202505 mg/kg
Acute Dermal Toxicity:	Not classified for acute toxicity based on available data.
Acute Inhalation Toxicity:	No data available Specified substance: Ethanol LC50 (Rat, 10 h): 20,000 mg/l LC50 (Mouse, 4 h): 39 mg/l LC50 (Cat,): 85.41 mg/l 2 (reliable with restrictions) LC50 (Rat,): 130.7 mg/l (, No) 2 (reliable with restrictions) LC50 (Mouse,): > 38 mg/l 4 (not assignable)
Repeated dose toxicity:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage / Eye Irritation:	No data available Specified substance: Propyl acetate Concentration of 200 ppm causes irritation of eyes.
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	In vitro: No data available In vivo: No data available
Carcinogenicity:	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Ethanol: Overall evaluation 1. Carcinogenic to humans.
	US. National Toxicology Program (NTP) Report on Carcinogens: Ethanol: Known to be Human Carcinogen.
	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified.
Reproductive Toxicity:	No data available
Specific Target Organ Toxicity - single exposure (STOT-se):	No data available
Specific Target Organ Toxicity - repeated exposure (STOT-re):	No data available
Aspiration Hazard:	No data available
Potential Health Effects:	
Skin Contact:	No data available
Eye Contact:	No data available
Ingestion:	No data available
Inhalation:	No data available
Other effects:	No data available

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
Acute/prolonged toxicity to fish:	**Specified substance: Ethanol** LC50 (Fathead minnow (Pimephales promelas), 1 h): > 18,000 mg/l Mortality LC50 (Zebra danio (Danio rerio), 2 h): > 100 mg/l Mortality LC50 (Zebra danio (Danio rerio), 2 h): > 100 mg/l Mortality LC50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 4 d): 42 mg/l Mortality LC50 (Zebra danio (Danio rerio), 4 h): > 100 mg/l Mortality
	Specified substance: Propyl acetate LC50 (Fathead minnow (Pimephales promelas), 24 h): 70 mg/l Mortality LC50 (Fathead minnow (Pimephales promelas), 48 h): 66 mg/l Mortality LC50 (Fathead minnow (Pimephales promelas), 96 h): 56 - 64 mg/l Mortality LC50 (Carp (Leuciscus idus melanotus), 48 h): 194 mg/l Mortality LC50 (Carp (Leuciscus idus melanotus), 48 h): 97 mg/l Mortality
	Specified substance: Isopropyl Alcohol LC50 (Fathead minnow (Pimephales promelas), 1 h): 11,830 mg/l Mortality LC50 (Fathead minnow (Pimephales promelas), 24 h): 10,600 mg/l Mortality LC50 (Fathead minnow (Pimephales promelas), 24 h): 11,160 mg/l Mortality LC50 (Harlequinfish, red rasbora (Rasbora heteromorpha), 24 h): 7,100 mg/l Mortality LC50 (Bluegill (Lepomis macrochirus), 24 h): >1,400 mg/l Mortality
Acute/prolonged toxicity to aquatic invertebrates:	**Specified substance: Ethanol** LC50 (Water flea (Daphnia magna), 216 h): 232 - 814 mg/l Mortality LC50 (Water flea (Ceriodaphnia dubia), 240 h): 1,284 - 2,638 mg/l Mortality LC50 (Water flea (Daphnia magna), 48 h): 12,813 - 15,804 mg/l Mortality LC50 (Brine shrimp (Artemia franchiscana), 48 h): 25.5 mg/l Mortality LC50 (Water flea (Ceriodaphnia dubia), 48 h): 3,046 - 4,432 mg/l Mortality
	Specified substance: Propyl acetate LC50 (Water flea (Daphnia magna), 24 h): 511 mg/l Mortality LC50 (Brine shrimp (Artemia salina), 24 h): 820 mg/l Mortality
	Specified substance: Isopropyl Alcohol LC50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality LC50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 900 - 1,950 mg/l Mortality LC50 (Common shrimp, sand shrimp (Crangon crangon), 96 h): 750 - 1,650 mg/l Mortality LC50 (Brine shrimp (Artemia salina), 24 h): >10,000 mg/l Mortality
Chronic toxicity to the aquatic environment (fish, aquatic invertebrates, aquatic plants):	No data available
Persistence and degradability:	No data available
BOD/COD ratio:	No data available
Bioaccumulative potential:	Bioconcentration factor (BCF): No data available
Partition coefficient n-octanol/water (log Kow):	Ethanol: -0.31 / Propyl acetate: 1.23 / Isopropyl Alcohol: 0.05
Mobility in soil:	No data available
Known or predicted distribution to environmental compartments (Ethanol, Propyl acetate, Propan-2-ol):	No data available

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	No data available
Container Disposal:	No data available

SECTION 14 - TRANSPORT INFORMATION

DOT:	
UN number:	UN 1170
DOT Proper Shipping Description:	Ethanol solutions
Hazard Class:	3
Placard:	3
Packing group:	II
Marine Pollutant:	Not regulated

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:			
Hazard categories			
US Federal Regulations:			
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):	None present or none present in regulated quantities.		
CERCLA Hazardous Substance List (40 CFR 302.4):	*Chemical identity:*	*Regulated Quantity:*	
	Ethanol	100 lbs.	
	Propyl acetate	100 lbs.	
	Isopropyl Alcohol:	100 lbs.	
Superfund amendments and reauthorization act of 1986 (SARA) Hazard categories:	Not listed		
SARA 302 Extremely hazardous substance:	None present or none present in regulated quantities.		
SARA 304 Emergency release notification:	*Chemical identity:*	*RQ:*	
	Ethanol	100 lbs.	
	Propyl acetate	100 lbs.	
	Isopropyl Alcohol:	100 lbs.	
SARA 311/312 Hazardous chemical:	*Chemical identity:*	*Threshold Planning Quantity:*	
	Ethanol	100 lbs.	
	Propyl acetate	100 lbs.	
	Isopropyl Alcohol:	100 lbs.	
SARA 313 (TRI reporting):			
Chemical identity:	Reporting threshold for other users:	Reporting threshold for manufacturing and processing:	
Isopropyl Alcohol	10,000 lbs.	25,000 lbs.	
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):	None present or none present in regulated quantities.		
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):	None present or none present in regulated quantities.		

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 15 - REGULATORY INFORMATION

US state regulations:		
US. California Proposition 65:	Used as directed, this product will NOT expose you to chemicals known to cause cancer.	
	Ethanol:	Carcinogenic *(when taken orally as a beverage; therefore does not apply to this product)*
	Ethanol:	Developmental toxin *(when taken orally as a beverage; therefore does not apply to this product)*
	NOTE: Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.	
US. New Jersey Worker and Community Right-to-Know Act:	Ethanol:	Listed
	Propyl acetate:	Listed
	Isopropyl Alcohol:	Listed
US. Massachusetts RTK - Substance List:	Ethanol:	Listed
	Propyl acetate:	Listed
US. Pennsylvania RTK - Hazardous Substances:	Ethanol:	Listed
	Propyl acetate:	Listed
US. Rhode Island RTK:	No ingredient regulated by RI Right-to-Know Law present.	
Inventory status:		
Canada DSL Inventory List:	Not in compliance with the inventory.	
EU EINECS List:	Not in compliance with the inventory.	
EU ELINCS List:	On or in compliance with the inventory.	
Japan (ENCS) List:	Not in compliance with the inventory.	
EU No Longer Polymers List:	Not in compliance with the inventory.	
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.	
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.	
Canada NDSL Inventory:	Not in compliance with the inventory.	
Philippines PICCS:	Not in compliance with the inventory.	
US TSCA Inventory:	On or in compliance with the inventory.	
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.	
Japan ISHL Listing:	Not in compliance with the inventory.	
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.	

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	*1
Flammability:	3
Reactivity:	0
Personal Protection:	K (Hood, Gloves, Protective Suit & Boots)
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

Disclaimer:
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.

Revision Date: 04/26/2018

Rupert, Gibbon & Spider, Inc. | P.O. Box 425 | Healdsburg, CA 95448 | 800.442.0455 | Fax: 707.433.4906 | www.jacquardproducts.com

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	Wassergefahrdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System