SAFETY DATA SHEET (SDS)

This SDS Sheet covers the following Jacquard product:

Item Number:	**Item Name:**
JAC9610	Hoop Painting Fun Bag

This product contains the following components:

Item Number:	**Item Name:**	**SDS Page Reference:**
813, 806, 802	Dye-Na-Flow colors (1 ea: Turquoise, Brilliant Red, Golden Yellow)	Dye-Na-Flow Page 1-8
882	Permanent Water-based Resist (Gold)	Permanent Water-based Resist Page 1-8
JAC0700, JAC1700, JAC2700	Silk Salt	Silk Salt Page 1-10

SAFETY DATA SHEET (SDS)

Revision Date: 03/07/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	**DYE-NA-FLOW**	
Product Number/Code:	**801-830 (ALL COLORS)**	
Recommended Use:	Paint for fabric and other surfaces	
Restrictions on use:	None known	
Emergency Number:	**ChemTel, Inc.** - Contract #MIS9128344	
	North America: **1-800-255-3924**	International: **1-813-248-0585**

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.	
Toxicological Data on Ingredients:	
Hazard Classification	Not hazardous
Physical Hazards:	Not classified
Health Hazards:	Not classified
Environmental Hazards:	Not classified
Label Elements	
Pictogram:	None
Signal Words:	None
Hazard Statements-EU:	The mixture does not meet the criteria for classification.
Precautionary Statements-EU:	
Prevention:	See section 8
Response:	See sections 4, 5 & 6
Storage:	See section 7
Disposal:	See section 13
Hazard(s) not otherwise classified:	None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	**Content in percent (%)***	**CAS #**
Diethylaminoethanol	< 0.1%	100-37-8
Acrylic polymer(s)	</=15%	N/A
Residual monomers	</=0.01%	N/A
Propylene glycol	<1%	N/A
Titanium Dioxide	>/=0.5% (830 white only)	N/A

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of skin contact:	Wash after handling.
In the event of eye contact:	Wash immediately with large amounts of water for 15 minutes. Get medical attention if necessary. Do not wear contact lenses while handling.
In the event of swallowing:	Dilute with water and get medical attention immediately. Do not induce vomiting.
In the event of exposure by inhalation:	Move to fresh air.
Aside from the information found under description of first aid measures and indication of immediate medical attention and special treatment needed any additional important information and effects are described in section 11.	

SECTION 5 - FIREFIGHTING MEASURES

Products of combustion:	N/A
Fire hazards in presence of various substances:	N/A
Special hazards (arising from the substance or mixture hazardous combustion products):	No data available
Unusual fire/explosion hazards:	Material in liquid form can splatter above 100°C/212°F. Dried product can burn.
Suitable extinguishing media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media:	No data available
Advice for firefighters/firefighting procedures:	No data available
Special protective equipment for firefighters:	Wear a self contained breathing apparatus and protective suit.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from the spill or leak. Material may cause slippery conditions.
Methods and material for containment and clean up:	Contain the spill immediately with inert material such as kitty litter, sand or earth. Transfer the spilled paint and solid material to separate suitable containers for recovery or responsible disposal.
Environmental procedures:	Caution keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes, skin and clothing. Wash their release after handling. Keep jars and containers tightly closed when not in use.
Conditions for safe storage including any incompatibilities:	Do not freeze. Product stability will be affected. Stir or shake well before use.
Storage stability/storage temperature:	1-49°C/434-120°F. Do not freeze. Formaldehyde may be generated under acidic conditions. Maintain adequate ventilation under these conditions to prevent exposure to formaldehyde above the recommended ceiling of 0.3 ppm. Acidic conditions will also affect stability of product. Avoid acidic conditions for material.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	
Exposure controls:	Facilities storing or utilizing this material and large volume should be equipped with an eyewash station.
Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Safety glasses with side shields.
Hand protection:	Gloves

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Low-medium viscosity colored liquid.
Color:	See label color of product
Type of Odor:	Slight acrylic odor
Odor threshold:	N/A
Taste:	N/A
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	100°C/212°F
Melting Point/Freezing Point:	Melting Point: No data available / Freezing Point: 0°C/32°F
Flammability Classification:	N/A
Critical Temperature:	N/A
Flash Point:	Non-combustible
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Flammability Limits (lower/upper):	N/A
Evaporation rate:	<1
Vapor Pressure:	22.665 @ 20°C water
Vapor Density (Air=1):	N/A
Volatility:	< 30%
Octanol/Water Partition Coefficient (log Pow):	N/A
Specific Gravity:	1.2
Bulk Density:	N/A
Water Solubility:	Dilutible
Ionicity:	Anionic
Dispersion Properties:	Suspension
pH:	9.5
Viscosity:	4,000-46,000cps
Kinetic Viscosity:	N/A
Explosive Properties:	N/A
Oxidizing Properties:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A
Relative Density:	+/- 1.2
Molecular Weight:	N/A

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Stable
Possibility of hazardous reactions:	None known. Product may undergo polymerization.
Conditions to avoid:	Extreme cold or heat
Incompatible materials:	Strong acids
Hazardous decomposition products:	Thermal decomposition may yield acrylic monomers.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)	
Acute Inhalation Toxicity:	The LC 50 has not been determined at this time.
Skin Corrosion/Irritation:	Skin irritation may occur
Serious Eye Damage / Eye Irritation:	No eye irritation
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	No data available
Carcinogenicity:	No data available
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
Components Influencing Toxicology:	Residual monomers
Acrylic Polymers:	Acute inhalation toxicity: The LC 50 has not been determined at this time.
Residual Monomers:	No information at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
General information:	No information available at this time
Acrylic polymers:	Acute toxicity to fish: no relevant data found
Residual monomers:	Acute toxicity to fish: no relevant data found
Persistence and degradability:	N/A
Acrylic polymers:	Biodegradability: no relevant data found
Residual monomers:	N/A
Biodegradability:	No relevant data found
Bioaccumulation potential:	N/A
Acrylic polymers:	N/A
Bioacumulation:	No relevant data found
Residual monomers:	N/A
Bioacumulation:	No relevant data found
Mobility in soil:	No relevant data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	Dispose of in accordance with local regulation.

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:	
Hazard categories	
OSHA Hazard Communication Standard:	This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:	This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:	This product does not contain any chemicals which are listed in Section 313 at or above de minimis concentrations.
Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103:	Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
Pennsylvania:	Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this SDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.
United States TSCA Inventory (TSCA):	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
California Prop 65:	This product does NOT contain any chemicals known to the state of California to cause cancer.

SECTION 16 - OTHER INFORMATION

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	

Disclaimer:
The information contained in this SDS is based on data from sources considered to be reliable but Dharma Trading Co. does not guarantee the accuracy or completeness thereof. Dharma Trading Co. 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: 03/07/2018

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)

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

SAFETY DATA SHEET (SDS)

Revision Date: 03/02/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	**PERMANENT WATER-BASED RESIST**	
Product Number/Code:	**881-888 (ALL COLORS)**	
Recommended Use:	Water-based paint for textile art	
Restrictions on use:	None known	
Emergency Number:	**ChemTel, Inc.** - Contract #MIS9128344	
	North America: **1-800-255-3924**	International: **1-813-248-0585**

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.	
Toxicological Data on Ingredients:	
Hazard Classification	Not hazardous
Physical Hazards:	Not classified
Health Hazards:	Not classified
Environmental Hazards:	Not classified
Label Elements	
Pictogram:	None
Signal Words:	None
Hazard Statements-EU:	The mixture does not meet the criteria for classification.
Precautionary Statements-EU:	
Prevention:	See section 8
Response:	See sections 4, 5 & 6
Storage:	See section 7
Disposal:	See section 13
Hazard(s) not otherwise classified:	No data available

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	**Content in percent (%)***	**CAS #**
Potassium alumina silicates	< 5%	12001-26-2
Diethylaminoethanol	< 0.1%	100-37-8
Acrylic polymer(s)	>/= 22%	
Residual monomers	</= 0.02%	
Urethane resins	>/= 29%	
Propylene glycol	< 1%	
Iron oxide	>/= 0.5%	
Titanium Dioxide	>/= 0.5%	

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of eye contact:	Wash immediately with large amounts of water for 15 minutes. Get medical attention if necessary. Do not wear contact lenses when handling.
In the event of swallowing:	Dilute with water and get medical attention immediately. Do not induce vomiting.
In the event of exposure by inhalation:	Move to fresh air.
Aside from the information found under the description of first aid measures and indication of immediate medical attention and special treatment needed, and additional important information and effects are described in Section 11.	

SECTION 5 - FIREFIGHTING MEASURES

Products of combustion:	N/A
Fire hazards in presence of various substances:	N/A
Special hazards (arising from the substance or mixture hazardous combustion products):	No data available
Unusual fire/explosion hazards:	Material in liquid form can splatter above 100°C/212°F. Dried product can burn.
Suitable extinguishing media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media:	No data available
Advice for firefighters/fire fighting procedures:	No data available
Special equipment for firefighters:	Wear a self contained breathing apparatus and protective suit.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment, Keep people away from the spill or leak. Material may cause slippery conditions.
Methods and material for containment and clean up:	Contain the spill immediately with inert material such as kitty litter, sand or earth. Transfer the spilled paint and solid material to separate suitable containers for recovery or responsible disposal.
Environmental precautions:	Caution keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with eyes, skin and clothing. Wash their release after handling. Keep jars and containers tightly closed when not in use.
Conditions for safe storage including any incompatibilities:	Do not freeze. Product stability will be affected. Stir or shake well before use.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	
Exposure controls:	Facilities storing or utilizing this material in large volume should be equipped with an eyewash station.
Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Safety glasses with side shields
Hand protection:	Gloves

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Low-medium viscosity liquid
Color:	See label color of product
Type of Odor:	Slight acrylic odor
Odor threshold:	N/A
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	100°C/212°C
Melting Point/Freezing Point:	Melting Point: No data available / Freezing Point: 0°C/32°F
Flammability Classification:	Not Flammable
Flash Point:	Not combustible
Critical Temperature:	N/A
Auto-ignition Temperature:	Unknown
Volatility:	< 30%
Decomposition Temperature:	N/A
Flammability Limits (lower/upper):	N/A
Evaporation rate:	< 1
Vapor Pressure:	22.665 @ 20°C water
Vapor Density (Air=1):	N/A
Octanol/Water Partition Coefficient (log Pow):	N/A
Ionicity (in water):	Anionic
Dispersion Properties:	Suspension
Specific Gravity:	1.2
Bulk Density:	N/A
Water Solubility:	Dilutible
pH:	9.5 (1% soln/water)
Viscosity:	4000-4600 cps
Kinetic Viscosity:	N/A
Explosive Properties:	N/A
Oxidizing Properties:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A
Molecular Weight:	N/A
Relative Density:	+/- 1.2

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No data available
Stability:	Stable
Possibility of hazardous reactions:	None known. Product may undergo polymerization.
Conditions to avoid:	Extreme cold or heat
Incompatible materials:	Strong acids
Hazardous decomposition products:	Thermal decomposition may yield acrylic monomers.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)	
Acute Inhalation Toxicity:	The LC50 has not been determined at this time.
Skin Corrosion/Irritation:	Skin irritation may occur
Serious Eye Damage / Eye Irritation:	No eye irritation
Respiratory or Skin Sensitization:	No data available
Germ Cell Mutagenicity:	No data available
Carcinogenicity:	No data available
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
Components influencing toxicology:	Residual monomers
Acrylic Polymers:	No information at this time.
Residual Monomers:	No information at this time.

SECTION 12 - ECOLOGICAL INFORMATION

General information:	No information available at this time.
Acrylic polymers:	Acute toxicity to fish: no relevant data found.
Residual monomers:	Acute toxicity to fish: no relevant data found.
Persistence and degradability:	N/A
Acrylic polymers:	Biodegradability: no relevant data found.
Residual monomers:	N/A
Biodegradability:	No relevant data found.
Bioacumulation potential:	N/A
Acrylic monomers:	N/A
Bioacumulation:	No relevant data found.
Residual monomers:	N/A
Bioacumulation:	No relevant data found.
Mobility in soil:	No relevant data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	Dispose in accordance with local regulation.

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:	
Hazard categories	
OSHA Hazard Communication Standard:	This product is considered non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:	This product is not a hazardous chemical under 29 CFR 1910.1200, and therefore is not covered by Title III of SARA.
Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:	This product does not contain any chemicals which are listed in Section 313 at or above de minimis concentrations.
Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) Section 103:	Releases of this material to air, land or water are not reportable to the National Response Center under Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Tile III Section 304.
Pennsylvania:	Any material listed as "Not Hazardous" in the CAS REG NO. column of Section 2, Composition/Information on Ingredients of this SDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.
United States TSCA Inventory (TSCA):	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
California Proposition 65:	This product does NOT contain any chemicals known to the state of California to cause cancer.

SECTION 16 - OTHER INFORMATION

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	

Disclaimer:
The information contained in this SDS is based on data from sources considered to be reliable but Dharma Trading Co. does not guarantee the accuracy or completeness thereof. Dharma Trading Co. 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: 03/02/2018

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)

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

SAFETY DATA SHEET (SDS)

Revision Date: 03/05/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	**SILK SALT**	
Product Number/Code:	**JAC0700, JAC1700, JAC2700, JAC9610**	
Recommended Use:	Patterning fabric	
Synonym(s):	Salt, Sea Salt	
Restrictions on use:	None known	
Emergency Number:	**ChemTel, Inc.** - Contract #MIS9128344	
	North America: **1-800-255-3924**	International: **1-813-248-0585**

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.	
Toxicological Data on Ingredients:	
Hazard Classification	Not hazardous
Physical Hazards:	Not classified
Health Hazards:	Not classified
Environmental Hazards:	Not classified
Label Elements	
Pictogram:	None
Signal Words:	None
Hazard Statements-EU:	The mixture does not meet the criteria for classification.
Precautionary Statements-EU:	
Prevention:	Observe good industrial hygiene practices.
Response:	P264 Wash hands thoroughly after handling.
Storage:	P420 Store away from incompatible materials.
Disposal:	P501 Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified:	None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	**Content in percent (%)***	**CAS #**
Sodium Chloride	100%	7647-14-5
GRAS Substance (Generally Recognized As Safe)		

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
In the event of skin contact:	Wash off with soap and water. Get medical attention if irritation develops and persists.
In the event of eye contact:	Rinse with water. Get medical attention if irritation develops and persists.
In the event of swallowing:	Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if symptoms occur.
In the event of exposure by inhalation:	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Most important symptoms and effects, acute and delayed:	Direct contact with eyes may cause temporary irritation.
Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.
General information:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture::	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions:	Use water spray to cool unopened containers.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	This product is not flammable or combustible.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and material for containment and clean up:	If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental procedures:	Avoid discharge into drains, water courses or onto the ground.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid contact with water and moisture. Keep away from strong acids. Practice good housekeeping.
Conditions for safe storage including any incompatibilities:	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	
Occupational exposure limits:	No exposure limits noted for ingredient(s).
Biological limit values:	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.
Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Un-vented, tight fitting goggles should be worn in dusty areas.
Hand protection:	Wear appropriate chemical resistant gloves.
Other protective equipment:	Wear suitable protective clothing.
Respiratory protection:	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Solid crystalline
Color:	White to opaque
Type of Odor:	Halogen odor when heated
Odor threshold:	Not available
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	2669 °F / 1465 °C (760 mmHg)
Melting Point/Freezing Point:	1473.8 °F / 801 °C
Flammability Classification:	Not available
Flash Point:	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Flammability Limits (lower/upper):	Not available
Evaporation rate:	Not available
Vapor Pressure:	2.4 mm Hg 1376.6 °F / 747 °C
Vapor Density (Air=1):	Not available
Octanol/Water Partition Coefficient (log Pow):	Not available
Specific Gravity:	Not available
Bulk Density:	35 - 83 lb/ft^3
Water Solubility:	26.4%
pH:	4 – 9
Viscosity:	Not available
Explosive Properties:	Not available
Oxidizing Properties:	Not available
Molecular Formula:	NaCl
Molecular Weight:	58.44
Relative Density:	2.16 (H2O = 1)

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials:	Avoid contact with strong acids. Becomes corrosive to metals when wet.
Hazardous decomposition products:	May evolve chlorine gas when in contact with strong acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)	
Acute Oral Toxicity:	LD50 (Mouse) 4,000 mg/kg LD50 (Rat) 3,000 mg/kg
Other:	LD50 (Mouse) 2,602 mg/kg
Skin Corrosion/Irritation:	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage / Eye Irritation:	Dust in the eyes will cause irritation.
Respiratory or Skin Sensitization:	Not available.
Germ Cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific Target Organ Toxicity - single exposure (STOT-se):	Not classified
Specific Target Organ Toxicity - repeated exposure (STOT-re):	Not classified
Aspiration Hazard:	Due to the physical form of the product it is not an aspiration hazard.
Potential Health Effects:	
Skin Contact:	Prolonged or repeated skin contact may cause irritation.
Eye Contact:	Dust in the eyes will cause irritation.
Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Inhalation of dusts may cause respiratory irritation.
Symptoms related to the physical, chemical and toxicological characteristics:	Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort. For ingestion, consuming less than a few grams would not be harmful. The following effects were observed after ingesting an excessive quantity: nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral edema (fluid on brain), pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells). Death is generally due to cardiovascular collapse or CNS damage.
Acute toxicity:	In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity: *The product is not classified as environmentally hazardous.* *However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.*			
Acute/prolonged toxicity to fish:	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4,747 - 7,824 mg/l, 96 hours
Acute/prolonged toxicity to aquatic invertebrates:	EC50	Water flea (Daphnia magna)	340.7 - 469.2 mg/l, 48 hours
Persistence and degradability:	No data is available on the degradability of this product.		
Bioaccumulative potential:	No data available		
Mobility in soil:	No data available		
Other adverse effects:	None known		

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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:		
US Federal Regulations		
TSCA/OSHA:	All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):	Not regulated	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):	Not listed	
CERCLA Hazardous Substance List (40 CFR 302.4):	Not listed	
Superfund Amendments and Reauthorization Act of 1986 (SARA):		
Hazard categories:	Immediate Hazard:	No
	Delayed Hazard:	No
	Fire Hazard:	No
	Pressure Hazard:	No
	Reactivity Hazard:	No
SARA 302 Extremely hazardous substance:	Not listed	
SARA 311/312 Hazardous Chemical:	No	
SARA 313 (TRI reporting):	Not regulated	
Other Federal Regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:	Not regulated	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):	Not regulated	
Safe Drinking Water Act (SDWA):	Not regulated	
US State Regulations		
US Massachusetts RTK - Substance List:	Not regulated	
US New Jersey Worker and Community Right-to-Know Act:	Not listed	
US Pennsylvania Worker and Community Right-to-Know Law:	Not listed	
US Rhode Island RTK:	Not regulated	
US California Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	
US California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance:	Not listed	

SECTION 15 - REGULATORY INFORMATION

International Inventories:		
Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	1
Flammability:	0
Reactivity:	0
Personal Protection:	A
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: 03/05/2018

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)

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