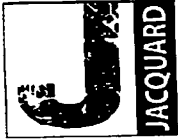


64931-1001

SDS**SAFETY DATA SHEET****RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906**

Contact Information:
 Rupert, Gibbon, & Spider, Inc.
 1147 Healdsburg Ave.
 Healdsburg, CA 95448
 800-442-0455

CHEMTREC (24HR Emergency Telephone),
 call: 1-800-424-9300
 International CHEMTREC, call: 1-703-527-3887
 For non-emergency assistance, call: 800-442-0455

Permanent Water Based Resist
SDS No: 881-888 Date: 04/08/16

1. Chemical, Product and Company Identification

PRODUCT NAME: Permanent Water Based Resist
 CATALOG CODES: JAC1, JAC2, JAC3 881-888
 CAS#: NA
 CI#: NA

Toxicological Data on Ingredients:**2 Hazards Identification**

This material is not hazardous under the criteria of Federal OSHA hazard communication standard 29 CFR 1910.1200.

OTHER HAZARDS: No data available

3. Composition and Information on Ingredients

Composition:	CAS #	% by Weight
Potassium alumina silicates	< 5%	cas # 12001-26-2
Diethylaminoethanol	< .1%	cas # 100-37-8
Acrylic polymer (s)	>/= 22%	
Residual monomers	</= .02%	
Urethane resins	>/= 29%	
Propylene glycol	<1%	
Iron oxide	>/= .5%	
Titanium Dioxide	>/= .5%	

4. First Aid Measures

EYE CONTACT: Wash immediately with large amounts of water for 15 minutes. Get medical attention if necessary. Do not wear contact lenses while handling.

INGESTION: Dilute with water and get medical attention immediately. Do not induce vomiting.

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.

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Section 5: Fire and Explosion Data

FLAMMABILITY OF THE PRODUCT:	Not Flammable
AUTO-IGNITION TEMPERATURE:	Unknown
FLASH POINTS:	Not combustable
Flammable Limits:	
PRODUCTS OF COMBUSTION:	NA
FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:	NA
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 degrees Celsius or 212 degrees Fahrenheit. 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.
ENVIRONMENTAL PRECAUTIONS:	Caution keep spills and cleaning runoff out of municipal sewers and open bodies of water.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP SPILLED PRODUCT:	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.

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:	Do not freeze. product stability will be affected. Stir or shake well before use.

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STORAGE STABILITY/STORAGE TEMPERATURE:

1 - 49 degrees Celsius 434 to 120 degrees Fahrenheit. 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 .3 ppm. acidic conditions will also affect stability of product. avoid acidic conditions for material.

Section 8: Exposure Controls/Personal Protection

PROTECTIVE MEASURES: Facilities storing or utilizing this material and large volume should be equipped with an eyewash station.

**INDIVIDUAL PROTECTION MEASURES/
EYE AND FACE PROTECTION:** Safety glasses with side shields.

SKIN AND HAND PROTECTION: Gloves

Section 9: Physical and Chemical Properties

PHYSICAL STATE AND APPEARANCE: Colored liquid. Low-medium viscosity liquid

ODOR: slight acrylic odor

TASTE: NA

MOLECULAR WEIGHT: NA

COLOR: see label color of product

pH (1% SOLN/WATER): 9.5

SPECIFIC GRAVITY: 1.2

RELATIVE DENSITY (WATER=1): +/- 1.2

FREEZING POINT: 0 C/ 32 F

BOILING POINTS: 100 C/ 212F

MELTING POINT: No data available

FLASH POINT: Non-combustible

EVAPORATION RATE(BUTYL ECETATE = 1): <1

FLAMMABILITY (SOLID, GAS): NA

LOWER EXPLOSION LIMIT: NA

UPPER EXPLOSION LIMIT: NA

CRITICAL TEMPERATURE: NA

VAPOR PRESSURE: 22.665 @ 20C water

VAPOR PRESSURE: NA

VAPOR DENSITY: NA

VOLATILITY: < 30%

ODOR THRESHOLD: NA

WATER/OIL DIST. COEFF: NA

IONICITY (IN WATER): Anionic

DISPERSION PROPERTIES: Suspension

SOLUBILITY IN WATER: Dilutable

AUTO IGNITION TEMP: NA

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DECOMPOSITION TEMP: NA
 VISCOSITY: 4000-46000cps
 KINETIC VISCOSITY: NA
 EXPLOSIVE PROPERTIES: NA
 OXIDIZING PROPERTIES: NA
 MELECULAR WEIGHT: NA

Section 10: Stability and Reactivity Data

REACTIVITY: No data available
 CHEMICAL STABILITY: Stable
 POSSIBILITY OF HAZARDOUS REACTIONS: None known
 CONDITIONS TO AVOID: Product may undergo polymerization
 extreme cold or heat
 INCOMPATIBLE MATERIALS: Strong acids
 HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield acrylic monomers

Section 11: Toxicological Information

SKIN CORROSION/IRRITATION: Skin irritation may occur
 SERIOUS EYE DAMAGE/IRRITATION: No eye irritation
 SENSITIZATION: No data available
 SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY: No data available
 CARCINOGENICITY: No data available
 REPRODUCTIVE TOXICITY: No data available
 MUTAGENICITY: 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.
 ACUTE INHALATION TOXICITY: The LC 50 has not been determined 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: NA
 ACRYLIC POLYMERS: Biodegradability: no relevant data found
 RESIDUAL MONOMERS: NA
 BIODEGRADABILTY: No relevant data found
 BIOACUMULATION POTENTIAL: NA
 ACRYLIC POLYMERS: NA
 BIOACUMULATION: No relevant data found

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RESIDUAL MONOMERS: NA
BIOACUMULATION: No relevant data found
MOBILITY IN SOIL: No relevant data available

Section 13: Disposal Considerations

WASTE DISPOSAL: Dispose in accordance with local regulation.

Section 14: Transport Information

Not Regulated/Not dangerous according to the above specifications.

Section 15: Other Regulatory Information**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 MSDS 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

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.

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SDS**SAFETY DATA SHEET****RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906**

Contact Information:
 Rupert Gibbon & Spider
 1147 Healdsburg Ave.
 Healdsburg, CA 95448
 800-442-0455

CHEMTREC (24HR Emergency Telephone),
 call: 1-800-424-9300
 International CHEMTREC, call: 1-703-527-3887
 For non-emergency assistance, call: 800-442-0455

Dye-Na-Flow**SDS No: 801-830 Date: 11/24/2015****1. Chemical, Product and Company Identification**

PRODUCT NAME: Dye-Na-Flow
 CATALOG CODES: All Colors
 CAS#: NA
 CI#: NA

Toxicological Data on Ingredients:**2. Hazards Identification**

This material is not hazardous under the criteria of Federal OSHA hazard communication standard 29 CFR 1910.1200.

OTHER HAZARDS: No data available

3. Composition and Information on Ingredients

Composition:	% by Weight	CAS #
Diethylaminoethanol	< .1%	cas # 100-37-8
Acrylic polymer(s)	</= 15 %	N/A
Residual monomers	</= .01%	N/A
Propylene glycol	<1%	N/A
Titanium Dioxide	>/= .5% (830 WHITE ONLY)	N/A

4. First Aid Measures

EYE CONTACT: Wash immediately with large amounts of water for 15 minutes. Get medical attention if necessary. Do not wear contact lenses while handling.

INGESTION: Dilute with water and get medical attention immediately. Do not induce vomiting.

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: Fire and Explosion Data

FLAMMABILITY OF THE PRODUCT: Not Flammable
 AUTO-IGNITION TEMPERATURE: Unknown
 FLASH POINTS: Not combustable

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Flammable Limits:	
PRODUCTS OF COMBUSTION:	NA
FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES:	NA
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 degrees Celsius or 212 degrees Fahrenheit. 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.
ENVIRONMENTAL PRECAUTIONS:	Caution keep spills and cleaning runoff out of municipal sewers and open bodies of water.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP SPILLED PRODUCT:	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.

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:	Do not freeze. product stability will be affected. Stir or shake well before use.
STORAGE STABILITY/STORAGE TEMPERATURE:	
I - 49 degrees Celsius 434 to 120 degrees Fahrenheit. 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 .3 ppm. acidic conditions will also affect stability of product. avoid acidic conditions for material.	

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Section 8: Exposure Controls/Personal Protection

PROTECTIVE MEASURES:	Facilities storing or utilizing this material and large volume should be equipped with an eyewash station.
INDIVIDUAL PROTECTION MEASURES/ EYE AND FACE PROTECTION:	Safety glasses with side shields.
SKIN AND HAND PROTECTION:	Gloves

Section 9: Physical and Chemical Properties

PHYSICAL STATE AND APPEARANCE:	Colored liquid. Low-medium viscosity liquid
ODOR:	slight acrylic odor
TASTE:	NA
MOLECULAR WEIGHT:	NA
COLOR:	see label color of product
pH (1% SOLN/WATER):	9.5
SPECIFIC GRAVITY:	1.2
RELATIVE DENSITY (WATER=1):	+/- 1.2
FREEZING POINT:	0 C/ 32 F
BOILING POINTS:	100 C/ 212F
MELTING POINT:	No data available
FLASH POINT:	Non-combustible
EVAPORATION RATE(BUTYL ECETATE = 1):	<1
FLAMMABILITY (SOLID, GAS):	NA
LOWER EXPLOSION LIMIT:	NA
UPPER EXPLOSION LIMIT:	NA
CRITICAL TEMPERATURE:	NA
VAPOR PRESSURE:	22.665 @ 20C water
VAPOR PRESSURE:	NA
VAPOR DENSITY:	NA
VOLATILITY:	< 30%
ODOR THRESHOLD:	NA
WATER/OIL DIST. COEFF:	NA
IONICITY (IN WATER):	Anionic
DISPERSION PROPERTIES:	Suspention
SOLUBILITY IN WATER:	Dilucible
AUTO IGNITION TEMP:	NA
DECOMPOSITION TEMP:	NA
VISCOSITY:	4000-46000cps
KINETIC VISCOSITY:	NA
EXPLOSIVE PROPERTIES:	NA

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OXIDIZING PROPERTIES: NA
 MELECULAR WEIGHT: NA

Section 10: Stability and Reactivity Data

REACTIVITY: No data available
 CHEMICAL 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

SKIN CORROSION/IRRITATION: Skin irritation may occur
 SERIOUS EYE DAMAGE/IRRITATION: No eye irritation
 SENSITIZATION: No data available
 SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY: No data available
 CARCINOGENICITY: No data available
 REPRODUCTIVE TOXICITY: No data available
 MUTAGENICITY: 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.
 ACUTE INHALATION TOXICITY: The LC 50 has not been determined 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: NA
 ACRYLIC POLYMERS: Biodegradabilty: no relevant data found
 RESIDUAL MONOMERS: NA
 BIODEGRADABILTY: No relevant data found
 BIOACUMULATION POTENTIAL: NA
 ACRYLIC POLYMERS: NA
 BIOACUMULATION: No relevant data found
 RESIDUAL MONOMERS: NA
 BIOACUMULATION: No relevant data found
 MOBILITY IN SOIL: No relevant data available

Section 13: Disposal Considerations

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SDS**SAFETY DATA SHEET****RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906****WASTE DISPOSAL:** Dispose in accordance with local regulation.**Section 14: Transport Information**

Not Regulated/Not dangerous according to the above specifications.

Section 15: Other Regulatory Information**OSHA Hazard Communication Standard**

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR 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 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 MSDS 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

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.

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RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

Revision date: April 17, 2015

1. Identification

Product identifier Silk Salt

Other means of identification

SDS number JAC0700, JAC1700, JAC2700

Recommended use Patterning fabric

Recommended restrictions None known.

Contact Information:

Rupert Gibbon & Spider, Inc.
 1147 Healdsburg Ave.
 Healdsburg, CA 95448
 800-442-0455

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 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 800-442-0455

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients**Mixtures**

Silk Salt

700 Version #: 02 Revision date: 17-April-2015 Issue date: 21-August-2014

SDS US

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Chemical name	CAS number	%
Sodium Chloride	7647-14-5	100

GRAS Substance (Generally Recognized As Safe).

4. First-aid measures**Inhalation**

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of 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.

5. Fire-fighting measures**Suitable 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.

Specific hazards arising from the chemical

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.

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 materials for containment and cleaning 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 precautions

Avoid discharge into drains, water courses or onto the ground.

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.

Silk Salt

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8. Exposure controls/personal protection

- 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** Unvented, tight fitting goggles should be worn in dusty areas.

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Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	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.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	White crystalline solid
Physical state	Solid.
Form	Crystalline solid.
Color	White to opaque
Odor	Halogen odor when heated
Odor threshold	Not available. pH
	Not available.
Melting point/freezing point	1473.8 °F (801 °C)
Initial boiling point and boiling range	2669 °F (1465 °C) (760 mmHg)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2.4 mm Hg (1376.6 °F (747 °C))
Vapor density	Not available.
Relative density	2.16 (H ₂ O = 1)
Solubility(ies)	
Solubility (water)	26.4 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	35 - 83 lb/ft ³
Molecular formula	NaCl
Molecular weight	58.44
pH in aqueous solution	4 - 9

Silk Salt

SDS US

700 Version #: 02 Revision date: 17 April 2015 Issue date: 21 August 2014

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10. Stability and reactivity

**Reactivity Chemical
stability Possibility of
hazardous
reactions**

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.

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RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

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.

11. Toxicological information**Information on likely routes of exposure**

Inhalation	Inhalation of dusts may cause respiratory irritation.
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.

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.

Information on toxicological effects

Acute toxicity In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
Acute		
Oral		
LD50	Rat	3000 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		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
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.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.	
12. Ecological information		
Ecotoxicity	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.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
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Other adverse effects None known.

13. Disposal considerations

Disposal Instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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Local disposal regulations	Dispose 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.

14. Transport information**DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information**US federal regulations**

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

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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.

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).

16. Other information, including date of preparation or last revision

Issue date 21-August-2014
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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.

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