SAFETY DATA SHEET (SDS)

Revision Date: 09/05/2019

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	**RESISTAD**	
Product Number/Code:	**JAC2870, JAC3870, JAC4870**	
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:	Skin Sensitization	Category 1
Health Hazards:	Not classified	
Environmental Hazards:	Acute Aquatic Toxicity	Category 3
	Chronic Aquatic Toxicity	Category 3
Label Elements		
Pictogram:		
Signal Words:	WARNING	
Hazard Statements-EU:	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.	
Precautionary Statements-EU:		
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.	

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Response:	P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P321 Specific treatment (see product label). P363 Wash contaminated clothing before reuse.
Storage:	See section 7
Disposal:	P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified:	None known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	**Content in percent (%)***	**CAS #**
Fluorinated acrylic copolymer - Substance/mixture: Mixture - Chemical nature: Mixture	5-10%	ACCN # 265599
The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.		

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
General advice:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
In the event of skin contact:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In the event of eye contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
In the event of swallowing:	Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
In the event of exposure by inhalation:	Move to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
Most important symptoms and effects, acute and delayed:	May cause an allergic skin reaction.
Notes to physician:	Treat symptomatically.

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SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	Do not allow run-off from fire fighting to enter drains or water courses. The pressure in sealed containers can increase under the influence of heat. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products:	Carbon monoxide Carbon dioxide (CO_2) Nitrogen oxides (NO_x) Hydrofluoric acid
Specific extinguishing methods:	No data is available on the product itself.
Further information:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Advice for fire fighters:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
Methods and material for containment and clean up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Environmental procedures:	Try to prevent the material from entering drains or water courses. Do not flush into surface water or sanitary sewer system.

SECTION 7 - HANDLING AND STORAGE

Advice on protection against fire and explosion:	Normal measures for preventive fire protection. To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of irritating gases and vapours.
Advice on safe handling:	Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage including any incompatibilities:	Recommended storage temperature: 5-30°C Stable under recommended storage conditions. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	
Components with workplace control parameters:	Contains no substances with occupational exposure limit values.
Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
Skin protection:	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
Respiratory protection:	No personal respiratory protective equipment normally required.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Dispersion
Color:	Beige, brown
Type of Odor:	Acrylic-like
Odor threshold:	No data is available on the product itself.
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	ca. 100°C
Melting Point/Freezing Point:	No data is available on the product itself.
Flammability Classification:	No data is available on the product itself.
Flash Point:	> 100°C Method: closed cup
Auto-ignition Temperature:	No data is available on the product itself.
Decomposition Temperature:	No data is available on the product itself.
Self-Accelerating Decomposition Temperature (SADT):	No data is available on the product itself.
Flammability Limits (lower/upper):	No data is available on the product itself.
Evaporation rate:	No data is available on the product itself.
Vapor Pressure:	No data is available on the product itself.
Vapor Density (Air=1):	No data is available on the product itself.
Octanol/Water Partition Coefficient (log Pow):	No data is available on the product itself.
Specific Gravity:	No data is available on the product itself.
Density:	No data is available on the product itself.
Water Solubility:	Completely miscible.
Solubility in other solvents:	No data is available on the product itself.
pH:	2.2 - 5 (20°C) Concentration: 100%
Viscosity:	No data is available on the product itself.
Explosive Properties:	No data is available on the product itself.
Oxidizing Properties:	No data is available on the product itself.
Particle Size:	No data is available on the product itself.
Molecular Formula:	No data is available on the product itself.
Molecular Weight:	No data is available on the product itself.
Relative Density:	No data is available on the product itself.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Stable under normal conditions. No decomposition if used as directed.
Conditions to avoid:	None known.
Incompatible materials:	Strong acids, strong bases, oxidizing agents, reducing agents, anionic compounds
Hazardous decomposition products:	Carbon dioxide (CO_2), Carbon monoxide, Hydrogen chloride, Hydrogen fluoride, Nitrogen oxides (NO_x)

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SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity (list all possible routes of exposure)	
Acute Oral Toxicity:	No data available
Acute Dermal Toxicity:	No data available
Acute Inhalation Toxicity:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage / Eye Irritation:	No data available
Respiratory or Skin Sensitization:	Exposure routes: Skin Species: Mouse Method: OECD Test Guideline 429 Result: May cause sensitization by skin contact. Remarks: Information given is based on data on the components and the toxicology of similar products. Assessment: No data available
Germ Cell Mutagenicity:	
Genotoxicity in vitro:	No data available
Genotoxicity in vivo:	No data available
Carcinogenicity:	No data available Assessment: No data available
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive Toxicity:	
Effects on fertility:	No data available
Effects on fetal development:	No data available
Reproductive toxicity - assessment:	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
Toxicology, Metabolism, Distribution:	No data available
Neurological effects:	No data available
Further information::	No data available

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SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
Acute/prolonged toxicity to fish:	No data available
Acute/prolonged toxicity to Daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l Exposure time: 48 h Remarks: Information given is based on data on the components and the ecotoxicology of similar products.
Acute/prolonged toxicity to algae:	No data available
M-factor (Acute aquatic toxicity):	No data available
Toxicity to fish (Chronic toxicity):	No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	No data available
M-Factor (Chronic aquatic toxicity):	No data available
Toxicity to microorganisms:	No data available
Toxicity to soil dwelling organisms:	No data available
Plant toxicity:	No data available
Sediment toxicity:	No data available
Toxicity to terrestrial organisms:	No data available
Ecotoxicology Assessment Acute aquatic toxicity:	No data available
Chronic aquatic toxicity - Product Toxicity Data on Soil:	Harmful to aquatic life with long lasting effects.
Other organisms relevant to the environment:	No data available
Persistence and degradability:	
Biodegradability - product:	Test Type: Zahn-Wellens Test Result: Inherently biodegradable. Biodegradation: 80 - 100 % Exposure time: 28 d Method: OECD Test Guideline 302B
Biochemical Oxygen Demand (BOD) - Product:	ca. 10 mgO_2/g
Chemical Oxygen Demand (COD) - Product:	ca. 215 mgO_2/g
BOD/COD:	No data available
ThOD:	No data available
BOD/ThOD:	No data available
Dissolved organic carbon (DOC):	No data available
Physico-chemical removability:	No data available
Stability in water:	No data available
Photodegradation:	No data available
Impact on Sewage Treatment:	No data available
Bioaccumulative Potential:	
Bioaccumulation:	No data available
Partition coefficient: n-octanol/water:	No data available

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SECTION 12 - ECOLOGICAL INFORMATION

Mobility in Soil:	
Mobility:	No data available
Distribution among environmental compartments:	No data available
Stability in soil:	No data available
Other adverse effects:	
Environmental fate and pathways:	No data available
Results of PBT and vPvB assessment:	No data available
Endocrine disrupting potential:	No data available
Adsorbed organic bound halogens (AOX) - Product:	ca. 1 % Test substance: Chloro
Hazardous to the ozone layer:	
Ozone-Depletion Potential:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information - Product:	Metal content under the ETAD recommended limits. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.
Global warming potential (GWP):	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Container Disposal:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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

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SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:			
EPCRA - Emergency Planning and Community Right-to-Know Act			
CERCLA Reportable Quantity:			
Components	CAS No.	Component RQ (lbs):	Calculated product RQ (lbs):
Acetic acid	64-19-7	5,000	*
* *Calculated RQ exceeds reasonably attainable upper limit.*			
SARA 311/312 Hazards:		Respiratory or skin sensitization	
SARA 313:		This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. This product does NOT contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).	
California Prop 65:		This product does NOT contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
The components of this product are reported in the following inventories:			
CH INV:		The formulation contains substances listed on the Swiss Inventory, on the inventory, or in compliance with the inventory.	
DSL:		All components of this product are on the Canadian DSL.	
AICS:		On the inventory, or in compliance with the inventory.	
NZIoC:		Not determined.	
ENCS:		Low volume exemption, on the inventory, or in compliance with the inventory.	
KECI:		On the inventory, or in compliance with the inventory.	
PICCS:		Not in compliance with the inventory.	
IECSC:		Low volume exemption, on the inventory, or in compliance with the inventory.	
TCSI:		On the inventory, or in compliance with the inventory.	
TSCA:		On the inventory, or in compliance with the inventory.	
Inventories:		AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)	
TSCA - 5(a) Significant New Use Rule List of Chemicals:		No substances are subject to a Significant New Use Rule.	
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):		No substances are subject to TSCA 12(b) export notification requirements.	

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SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:	
Health:	2
Flammability:	1
Reactivity:	0
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: 03/12/2018

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

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

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