SAFETY DATA SHEET (SDS)
Resistad

SECTION I - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name: RESISTAD
Recommended Use: Water-based paint for textile art
Restrictions on use: None known
Supplier: PRO Chemical & Dye

Emergency Number:

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:

<table>
<thead>
<tr>
<th>Hazard Classification</th>
<th>Physical Hazards:</th>
<th>Health Hazards:</th>
<th>Environmental Hazards:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Skin Sensitization</td>
<td>Not classified</td>
<td>Acute Aquatic Toxicity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard Statements-EU:</th>
<th>Precautionary Statements-EU:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING</td>
<td>Prevention:</td>
</tr>
<tr>
<td>H317 May cause an allergic skin reaction.</td>
<td>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>H412 Harmful to aquatic life with long lasting effects.</td>
<td>P272 Contaminated work clothing should not be allowed out of the workplace.</td>
</tr>
<tr>
<td></td>
<td>P273 Avoid release to the environment.</td>
</tr>
<tr>
<td></td>
<td>P280 Wear protective gloves/protective clothing/eye protection/face protection.</td>
</tr>
</tbody>
</table>
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:

Disposal:
P50 I 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
Fluorinated acrylic copolymer
- Substance/mixture: Mixture
- Chemical nature: Mixture

Content in percent (%)* 5-10% CAS #
265599

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:
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.
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 (CO₂), Nitrogen oxides (NOₓ), 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 vapors.

Do not breathe vapors/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.

Advice on safe handling: 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.
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.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:
Appearance and physical state:
Color:
Type of Odor:
Odor threshold:

Important health, safety and environmental information:
Initial Boiling Point and Boiling Range:
Melting Point/Freezing Point
Flammability Classification:
Flash Point:

Auto-ignition Temperature:
Decomposition Temperature:
Self-Accelerating Decomposition Temperature (SADT):
Flammability Limits (lower/upper):
Evaporation rate:
Vapor Pressure:
Vapor Density (Air= 1):
Octanol/Water Partition Coefficient (log Pow):
Specific Gravity:
Density:
Water Solubility:
Solubility in other solvents:

Viscosity:
Explosive Properties:
Oxidizing Properties:
Particle Size:
Molecular Formula:
Molecular Weight:
Relative Density:

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:
Stability:
Possibility of hazardous reactions:
Conditions to avoid:
Incompatible materials:

Hazardous decomposition products:
No dangerous reaction known under conditions of normal use.
Stable under normal conditions.
Stable under normal conditions. No decomposition if used as directed.
None known.
Strong acids. strong bases. oxidizing agents. reducing agents. anionic compounds
Carbon dioxide (CO₂), Carbon monoxide. Hydrogen chloride. Hydrogen
fluoride. Nitrogen oxides (NOx)
SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects:
Acute toxicity (list all possible routes of exposure)
Acute Oral Toxicity:
Acute Dermal Toxicity:
Acute Inhalation Toxicity:
Skin Corrosion/Irritation:
Serious Eye Damage / Eye Irritation:
Respiratory or Skin Sensitization:

Germ Cell Mutagenicity:
Genotoxicity in vitro:
Genotoxicity in vivo:
Carcinogenicity:

IARC:
No data available

ACGIH:
No data available
Assessment: No data available

OSHA:
No data available

NTP:
No data available

Reproductive Toxicity:
Effects on fertility:
Effects on fetal development:
Reproductive toxicity - assessment:
Specific Target Organ Toxicity - single exposure (STOT-se):
Specific Target Organ Toxicity - repeated exposure (STOT-re):

Aspiration Hazard:

Potential Health Effects:

Skin Contact:
Eye Contact:
Ingestion:
Inhalation:
Toxicology, Metabolism, Distribution:
Neurological effects:
Further information::
**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 0/Water flea)): > 10 - 100 mg/l
- 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: No data available
- Acute aquatic toxicity: No data available
- Chronic aquatic toxicity - Product Toxicity Data on Soil: No data available
- Other organisms relevant to the environment: No data available

**Persistence and degradability:**
- Biodegradability - product: Harmful to aquatic life with long lasting effects.
- Test Type: Zahn-Wellens Test
  - Result: Inherently biodegradable.
  - Biodegradation: 80 – 100%
  - Exposure time: 28 d
  - Method: OECD Test Guideline 302B
  - ca. 10 mgO2/g
  - ca. 215 mgO2/g
  - No data available

**Physico-chemical properties:**
- Biochemical Oxygen Demand (BOD) - Product: No data available
- Chemical Oxygen Demand (COD) - Product: No data available
- 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
SAFETY DATA SHEET (SDS)

SECTION 12 - ECOLOGICAL INFORMATION

Mobility in Soil:
- Mobility:
- Distribution among environmental compartments:
- Stability in soil:
Other adverse effects:
- Environmental fate and pathways:
- Results of PBT and vPvB assessment:
Endocrine disrupting potential:
- Adsorbed organic bound halogens (AOX) - Product:
- No data available
- No data available
- No data available
- No data available
- No data available
- No data available
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).
- 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.
- No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:
- Disposal:
- Container 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. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14 - TRANSPORT INFORMATION

General Information:
- UN number:
- UN proper shipping name:
- Transport hazard class:
- Packing group:
- Environmental Hazards:
- Environmentally hazardous substance:
- Special precautions for user:
- Not relevant
- Not relevant
- Not relevant
- Not relevant
- No
- Not relevant
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:

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>Component RQ (lbs):</th>
<th>Calculated product RQ (lbs):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td>5.000</td>
<td>*</td>
</tr>
</tbody>
</table>

* 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 Tide 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, KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TOSI (Taiwan), TSCA (USA)

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.
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 this company does not guarantee the accuracy or completeness thereof. This company 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)
### Abbreviations

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