

**1 - PRODUCT and COMPANY INFORMATION**

Company Info: iCOAT Products, Inc. www.icoatproducts.com
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CHEMTREC: For emergencies in the US Call CHEMTREC: (800) 424-9300
Canutec: In Canada, all CANUTEC: (613) 996-6666 (call collect)
MSDS Format: According to ANSI Z400.1-2004

Product Name: Resin 221
Product Group: Polymer Dispersion

HMIS Classification: H F R PP
1 1 0 E

2 - COMPOSITION INFORMATION

Chemical Name	Cas #	Ingredient Percent
Polyoxyethylene (t-octylphenyl) ether	9036-19-5	1 - 5 %

3 - HAZARDS IDENTIFICATION

Emergency Overview : This material is not hazardous under OSHA or WHMIS criteria.
Physical Hazards: No known physical hazards.

Potential Health Effects

Target Organs: Eye, Skin Contact, Inhalation, Ingestion.
Skin / Eye Contact: No acute toxic effects are expected, may cause slight skin irritation.
Inhalation: No acute toxic effects are expected.
Ingestion: Not expected in industrial use.
Chronic Health Effects: None known.
Aggravation of Pre-Existing Conditions: Unknown
Carcinogens/Reproductive Toxins: There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposure below recommended levels; or in the event of a spill or other emergency response situation. Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

4 -FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for 15 – 20 minutes. Get medical attention if irritation or symptoms of overexposure persists.
Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation: If inhaled, remove to fresh air. No special measures required.
Ingestion: If swallowed, induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Other First Aid: In cases of sickness seek medical advice.



5 - FIRE FIGHTING MEASURES

Flash Point:	N/A
Lower Flammable / Explosive Limit:	N/A
Upper Flammable / Explosive Limit:	N/A
Ignition Temperature:	N/A
Fire and Explosion Hazards:	Use extinguishing measures appropriate to the source of fire. Water may be used to cool tanks and structures adjacent to the fire.
Extinguishing Media:	Material does not burn. Dried up material is combustible. This material does not present any unusual fire or explosion hazards.
Protective Equipment:	As in any fire, wear Self –Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<u>NFPA Ratings:</u>	
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Use proper personal protective equipment as listed in Section 8. If material is released indicate risk of slipping.
Environmental Precautions:	Avoid runoff into storm sewers, ditches and waterways. Contain any fluid that runs out using suitable material (e.g. earth)
Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth) and dispose of according to local/state/federal regulations. Clean up spills immediately observing precautions in the protective equipment section. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

7 - HANDLING AND STORAGE

General:	No special protective measures required.
Handling:	Spilled substance increases risk of slipping. No special precautions against fire and explosion required.
Storage:	Protect against frost. Store in a cool, dry area. Keep container tightly closed when not in use.
Lowest Temp during Storage/Trans:	Do not transport or store lower than 0° C (32° F)

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION – EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, or other engineering controls to control airborne levels below recommended exposure limits. Local exhaust ventilation is not necessary. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166
Skin Protection:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	Not necessary
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
General Hygiene:	Do not eat or drink when handling. Wash thoroughly after handling.



9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid
Color:	Milky White
Odor:	Slight
Boiling Point:	Approx. 100° C (212° F) at 1013 hPa
Melting Point:	Approx. 0.00° C (32° F)
Density:	Approx. 1.07 g/cm ³
Vapor Pressure:	23 hPa at 20° C (68° F)
pH:	9-10
Water solubility:	Moderately Soluble
Viscosity:	< 100 mPa*s at 23° C (73° F)
Flash Point:	Not Applicable
Ignition Temperature:	Not Applicable

10 - STABILITY and REACTIVITY

General Information:	If stored and handled in accordance with standard industrial practices no hazardous reactions are known
Hazardous Polymerization:	Can not occur.
Conditions to Avoid:	freezing or temperatures below 32° F.
Incompatible Materials:	None known

11 - TOXICOLOGICAL INFORMATION

General Information:	The toxicology results listed below are based on tests with similar material.
Skin:	Skin – Rabbit LD50 : Mildly irritating
Ingestion:	Ingestion – Rat LD50: > 2000 mg/kg/ 24H;
Human Experience:	During manufacture and use, no information on damage to health

12 - ECOLOGICAL INFORMATION

Biodegradation:	Not easily biodegradable.
Further Information:	Polymer components elimination by adsorption in activated sludge. Separation by flocculation is possible.
Ecotoxicological Effects:	No expected damaging effects to water organisms.
Effects in Sewage Treatment Plants:	According to current knowledge adverse effects on water purification plants are not expected.
Further Information:	Prevent material from introduction into surface water and into soil. Only introduce into water purification plants in diluted state. No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Dispose of according to regulations by incineration in a special waster incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations. After chemical deflocculation: can be stored with domestic waste.
Packaging Disposal:	Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.



14 - TRANSPORTATION INFORMATION

General Information: Not regulated for transport by US DOT or Canada TDG. Not regulated by sea transport by IMDG. Not regulated by air transport by ICAO-TI or IATA-DGR

Notes: Protect from freezing.

15 - REGULATORY INFORMATION

U.S. Federal regulations:

TSCA Inventory Status:

TSCA 129b) Export Notification:

CERCLA Regulated Chemicals:

SARA 302 EHS Chemicals:

SARA 311/312 Hazard Class:

Sara 313 Chemicals:

HAPS:

California PROP 65: Warning: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

Dipropylene glycol butoxy ether:

TSCA Inventory Status: Listed

Canada DSL: Listed

Dipropylene glycol monomethyl ether:

TSCA Inventory Status: Listed

State Regulations: Listed in New Jersey State Right to Know List.

Listed in Pennsylvania State Hazardous Substances List.

Canada DSL: Listed

Nepheline Syenite:

TSCA Inventory Status: Not Listed

Canada DSL: Listed

Ethylene glycol:

TSCA Inventory Status: Listed

State Regulations: Listed in New Jersey State Right to Know List.

Listed in Pennsylvania State Hazardous Substances List.

Canada DSL: Listed

16 - ADDITIONAL INFORMATION

HMIS Health Hazard: 1

HMIS Fire Hazard: 1

HMIS Reactivity: 0

HMIS Other: x

MSDS Creation Date: June 26, 2006

MSDS Revision Date: September 9, 2009

MSDS Revision Notes: Quarterly Formula Update

MSDS Author: iCOAT Products, Inc.

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