The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

"Resistech"
10098APP Revised 22-MAY-2006

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Tradenames and Synonyms (Remarks)

"ResisTech" is a registered trademark of Invista.

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS
Product Information : 1-800-441-7515 (outside the U.S. 302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S. 703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S. 302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Polymethylmethacrylate	9011-14-7	1-4
NJ Trade Secret Registry #00850201001-5155P		2-9
NJ Trade Secret Registry #00850201001-5259P		0.25-2.5
Phenolic Resin Condensate		1-3
Citric Acid	77-92-9	2-4
Water	7732-18-5	78-90

HAZARDS IDENTIFICATION

Potential Health Effects

Skin contact may cause mild skin irritation with discomfort or rash.

eYE contact may cause eye irritation with discomfort, tearing or blurring of vision.

Inhalation may cause irritation of the nose and throat with sneezing, sore throat, or runny nose.

Inhalation of respirable particles of NJ Trade Secret Registry #00850201001-5259P may cause lung irritation effects with cough, discomfort, difficulty breathing, and

(HAZARDS IDENTIFICATION - Continued)

shortness of breath; or pulmonary edema (body fluid in the lungs. Symptoms may be modest initially, followed in hours by severe shortness of breath requiring prompt medical attention.

Ingestion of Citric Acid may cause gastrointestinal irritation with upper abdominal pain, "heart burn", nausea, vomiting, and diarrhea. However, there may be no symptoms at all.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Not a fire or explosion hazard.

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, and throat irritation or toxic effects.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

Prevent liquid from entering storm sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up. Place in container for disposal.

HANDLING AND STORAGE

Handling (Personnel)

Avoid inhalation. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

Handling (Physical Aspects)

Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

Storage

Keep container tightly closed.

(HANDLING AND STORAGE - Continued)

Keep from freezing.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation.

Vent dryer fumes outside work area. Do not aerosolize. In spray applications, use airless type pressure spray equipment at less than 60 psi and exhaust ducts, drip pans, or other design features to minimize worker exposure to mists and overspray.

Personal Protective Equipment

EYE/FACE

Wear coverall chemical splash goggles.

RESPIRATORS

Wear NIOSH approved respiratory protection, as appropriate.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Applicable Exposure Limits

Polymethylmethacrylate

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: None Established
AEL *	(DuPont)	: 10 mg/m3, 8 Hr. TWA, total dust 5 mg/m3, 8 Hr. TWA, respirable dust

NJ Trade Secret Registry #00850201001-5259P

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: None Established
AEL *	(DuPont)	: 0.1 mg/m3, 8 & 12 Hr. TWA respirable dust

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: 100 C (212 F)
% Volatiles	: 85 WT%
Solubility in Water	: 100 %
pH	: 4-5
Form	: Opaque Liquid
Color	: Tan
Specific Gravity	: 1.03 @ 20C (68F)
Density	: 8.6 lb/gal @ 25 C (77 F)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible with cationics and mineral acids.

Decomposition

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, and throat irritation or toxic effects.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Polymethylmethacrylate:

Inhalation 4 Hr. LC50:	>2 mg/L in rats
Skin Absorption LD50:	>3,000 mg/kg in rabbits
Oral LD50:	>2,000 mg/kg in rats

NJ Trade Secret Registry # 00850201001-5259P:

Inhalation 4 Hr. LC50:	42 mg/m3 in rats (Respirable Particles)
Oral LD50:	>25,000 mg/kg in rats

Citric Acid:

Oral LD50:	11,700 mg/kg in rats

(TOXICOLOGICAL INFORMATION - Continued)

Polymethylmethacrylate is not a skin or eye irritant, and is not a skin sensitizer in animals. Repeated inhalation exposure caused clinical chemical effects in rabbits. Single and repeated exposures by ingestion produced mild degenerative changes of the liver and kidneys. No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.

25-35% NJ Trade Secret Registry # 00850201001-5155P in water is a mild skin and eye irritant; is not a skin sensitizer; is of very low toxicity by ingestion (Oral ALD, >11,000 mg/kg in rats), and is at worst moderately toxic by inhalation (4 Hour Inhalation ALC, >1300 mg/m3 in rats). Single oral doses caused diarrhea and moderate to severe weight losses in the exposed animals. Ocular and nasal discharges were observed in animals exposed by inhalation. No animal test reports are available to define carcinogenic, mutagenic, developmental, or reproductive hazards.

NJ Trade Secret Registry # 00850201001-5259P is a mild skin irritant, is a slight eye irritant, and is a weak skin sensitizer in animals. Single and repeated inhalation exposures produce severe lung congestion with edema and bleeding. No animal test reports are available to define carcinogenic, developmental, or reproductive hazards. This material does not produce genetic damage in bacterial cell cultures, but has not been tested in animals.

Citric acid is a mild skin irritant, is a severe eye irritant, but is untested for animal sensitization. Prolonged ingestion exposures produced nonspecific effects such as weight loss and irritation as well as slight increase in tooth erosion. No animal test reports are available to define carcinogenic or developmental hazards. Tests in animals demonstrate no reproductive toxicity. Citric acid does not produce genetic damage in bacterial or mammalian cell cultures, but has not been tested in animals.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Citric Acid:
100 Hour LC50, Goldfish: >625 mg/L.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not burn.

TRANSPORTATION INFORMATION

Shipping Information

Not Regulated as a hazardous material by DOT, IMO, or IATA.

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute	: Yes
Chronic	: No
Fire	: No
Reactivity	: No
Pressure	: No

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health	: 2
Flammability	: 0
Reactivity	: 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator
DuPont Chemical Solutions Enterprise
Address : Wilmington, Delaware 19898
Telephone : 800-441-7515

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS