

MATERIAL SAFETY DATA SHEET

Issuing Date 03-Apr-2007

Revision Date

Revision Number 0

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name PR-1 Reconditioning Compound

Product Code(s) PR-1

**Supplier Address**

Thermo Fisher Scientific  
3411 Silverside Road  
Bancroft Bldg., Ste. 100  
Wilmington, DE 19810  
302-479-7707

CHEMICAL EMERGENCY NUMBERS:  
USA 1-800-535-5053 (INFOTRAC)  
Outside the U.S. call collect 1-352-323-3500

**2. HAZARDS IDENTIFICATION**

**WARNING!**

**Emergency Overview**

May cause skin irritation and/or dermatitis  
May produce an allergic reaction  
May cause sensitization by skin contact  
May cause drowsiness and dizziness.

Appearance White

Physical State Paste.

Odor Pine

**Potential Health Effects**

**Acute Toxicity**

**Eyes**

May cause irritation.

**Skin**

May cause irritation. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Inhalation**

May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

<b>Ingestion</b>	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause additional effects as listed under "Inhalation". Potential for aspiration if swallowed.
<b>Chronic Effects</b>	Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
<b>Aggravated Medical Conditions</b>	Allergies. Skin disorders. Respiratory disorders. Central nervous system. Preexisting eye disorders.
<b>Interactions with Other Chemicals</b>	Irritants. Sensitizers. Epoxies. Use of alcoholic beverages may enhance toxic effects.
<b>Environmental Hazard</b>	See Section 12 for additional Ecological information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	10-30
Petroleum distillates, hydrotreated light	64742-47-8	5-10
Triethanolamine	102-71-6	1-5
Hexylene glycol	107-41-5	1-5
Diethylene glycol monoethyl ether	111-90-0	0.1-1
5-Chloro-2-methyl-3-isothiazolone	26172-55-4	0.1-1
Alcohols, C9-11-iso-, C10-rich, ethoxylated	78330-20-8	0.1-1
Sodium hydroxide	1310-73-2	0.1-1

### 4. FIRST AID MEASURES

<b>General Advice</b>	If symptoms persist, call a physician.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off with warm water and soap. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
<b>Notes to Physician</b>	May cause sensitization of susceptible persons. Use of epinephrine may be indicated.

### 5. FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable
<b>Flash Point</b>	Not applicable
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

### Explosion Data

Sensitivity to mechanical impact     None  
Sensitivity to static discharge        None

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

<b>NFPA</b>	Health Hazard 2	Flammability 0	Stability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 2	Flammability 0	Stability 0	Personal Precautions -

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Avoid contact with the skin and the eyes.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for Cleaning Up</b>	Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid breathing vapors or mists. Avoid contact with skin and eyes.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine	TWA: 5 mg/m <sup>3</sup>		
Hexylene glycol	Ceiling: 25 ppm	Ceiling: 25 ppm Ceiling: 125 mg/m <sup>3</sup>	
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
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<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles.
<b>Skin and Body protection</b>	Lightweight protective clothing.

**Respiratory Protection**

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White	<b>Odor</b>	Pine
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Paste
<b>pH</b>	7.0-7.6		
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	No data available	<b>Boiling Point/Range</b>	No data available
<b>Melting Point/Range</b>	No data available		
<b>Flammability Limits in Air</b>	No data available	<b>Explosion Limits</b>	No data available
<b>Specific Gravity</b>	No data available	<b>Solubility</b>	No data available
<b>Evaporation Rate</b>	No data available	<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available	<b>VOC Content</b>	<30%
<b>Partition Coefficient (n-octanol/water)</b>	No data available		

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	None known based on information supplied
<b>Incompatible Products</b>	None known based on information supplied
<b>Hazardous Decomposition Products</b>	None under normal use, Thermal decomposition can lead to release of irritating gases and vapors.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity****Product Information**

No acute toxicity information is available for this product.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Solvent naphtha (petroleum), medium aliphatic	5000 mg/kg ( Rat )	3000 mg/kg ( Rabbit )	5.28 mg/L ( Rat ) 4 h
Petroleum distillates, hydrotreated light	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	5.2 mg/L ( Rat ) 4 h
Triethanolamine	4190 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	
Hexylene glycol	3692 mg/kg ( Rat )	8560 µL/kg ( Rabbit )	310 mg/m <sup>3</sup> ( Rat ) 1 h
Diethylene glycol monoethyl ether	1920 mg/kg ( Rat )	4200 µL/kg ( Rabbit )	
5-Chloro-2-methyl-3-isothiazolone	481 mg/kg ( Rat )	1008 mg/kg ( Rat )	1.23 mg/L ( Rat ) 4 h
Sodium hydroxide		1350 mg/kg ( Rabbit )	

#### Subchronic Toxicity (28 days)

#### Chronic Toxicity

#### Chronic Toxicity

Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

#### Carcinogenicity

There are no known carcinogenic chemicals in this product

#### Mutagenicity

#### Reproductive Toxicity

This product does not contain any known or suspected reproductive hazards

#### Target Organ Effects

Central nervous system (CNS), Eyes, Respiratory system, Skin.

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Solvent naphtha (petroleum), medium aliphatic	EC50 = 450 mg/L 96 h			EC50 > 100 mg/L 48 h
Petroleum distillates, hydrotreated light				LC50 = 4720 mg/L 96 h
Triethanolamine	EC50 = 169 mg/L 96 h EC50 = 216 mg/L 72 h		EC50 > 10000 mg/L 30 min	EC50 = 1386 mg/L 24 h
Hexylene glycol			EC50 = 3036 mg/L 5 min	EC50 = 3200 mg/L 48 h
Diethylene glycol monoethyl ether				LC50 3940 - 4670 mg/L 48-h EC50 = 4026 mg/L 48 h
5-Chloro-2-methyl-3-isothiazolone	EC50 = 0.31 mg/L 120 h		EC50 = 5.7 mg/L 16 h	EC50 = 4.71 mg/L 48 h

Chemical Name	Log Pow
Triethanolamine	-2.53
Hexylene glycol	0.14
Diethylene glycol monoethyl ether	-0.8

## 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

Contaminated Packaging

Dispose of in accordance with local regulations

Chemical Name	California Hazardous Waste Status
Sodium hydroxide	Toxic, Corrosive

**14. TRANSPORT INFORMATION**

**DOT** Not regulated  
**IDG** Not regulated  
**MEX** Not regulated  
**ICAO** Not regulated  
**IATA** Not regulated  
**IMDG/IMQ** Not regulated  
**RID** Not regulated  
**ADR** Not regulated  
**ADN** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

**DSL** Complies  
**EINECS/ELINCS** Does not Comply  
**ENCS** Does not Comply  
**CHINA** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Diethylene glycol monoethyl ether	111-90-0	0.1-1	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
Chronic Health Hazard No  
Fire Hazard No  
Sudden Release of Pressure Hazard No  
Reactive Hazard No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium hydroxide	1000 lb	

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	X		X
Hexylene glycol	X	X	X		X
Diethylene glycol monoethyl ether		X	X	X	

**International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Sodium hydroxide		Mexico: Ceiling= 2 mg/m <sup>3</sup>
Hexylene glycol		Mexico: Ceiling= 25 ppm Mexico: Ceiling= 125 mg/m <sup>3</sup>

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2B Toxic materials



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**16. OTHER INFORMATION**

Issuing Date 03-Apr-2007

Revision Date

Revision Note No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS