

Section 1 - Chemical Product and Company Identification

MSDS Name:

Resolve Low Viscosity

Catalog Numbers:

M2000, M3000, M4000, M5000

Synonyms:

None Known.

Company Identification:
 Fisher Diagnostics
 Fisher Scientific Company LLC
 8365 Valley Pike
 Middletown, VA 22645-0307
Company Phone Number:

(800) 528-0494

Emergency Phone Number:

(800) 528-0494

CHEMTREC Phone Number, US:

(800) 424-9300

CHEMTREC Phone Number, Europe:

(202) 483-7616

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent	EINECS/ ELINCS	Hazard Symbols	Risk Phrases
8042-47-5	White mineral oil	52-55	232-455-8		
61788-32-7	Hydrogenated terphenyls	27-33	262-967-7		
9003-29-6	Polybutene	7-10	Not available		
68956-74-1	Polyphenyls, quater- and higher, partially hydrogenated	3-6	273-316-1		
26140-60-3	Terphenyls	1-4	247-477-3		

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Clear slightly yellow liquid

Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: None known

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:

No information found.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature:

Not available

Explosion Limits:

Lower: Not available Upper: Not available

Flash Point:

> 300°F (> 148.89°C)

NFPA Rating:

(estimated) Health: 1; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 7 - Handling and Storage

Handling:

Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
White mineral oil	None listed	None listed	None listed
Hydrogenated terphenyls	0.5 ppm TWA (non-irradiated)	0.5 ppm TWA; 5 mg/m ³ TWA	None listed
Polybutene	None listed	None listed	None listed
Polyphenyls, quater- and higher, partially hydrogenated Terphenyls	None listed	None listed	None listed
	5 mg/m ³ Ceiling	500 mg/m ³ IDLH	1 ppm Ceiling; 9 mg/m ³ Ceiling;

OSHA Vacated PELs

Hydrogenated terphenyls: 0.5 ppm TWA; 5 mg/m³ TWA

Personal Protective Equipment**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: Clear slightly yellow

Odor: Odorless

pH: No information found

Vapor Pressure: < 0.1 mm Hg

Vapor Density: 5 (Air=1)

Evaporation Rate: 0.01 (Butyl acetate=1)

Viscosity: No information found

Boiling Point: No information found

Freezing/Melting Point: No information found

Decomposition Temperature: No information found

Solubility in water: Insoluble.

Specific Gravity/Density: 0.92

Molecular Formula: Solution

Molecular Weight: No information found

Section 10 - Stability and Reactivity**Chemical Stability:**

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, excess heat

Incompatibilities with Other Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide

Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information**RTECS:**

CAS# 8042-47-5: PY8047000
CAS# 61788-32-7: WZ6535000
CAS# 9003-29-6: EM9032000
CAS# 68956-74-1 unlisted
CAS# 26140-60-3: WZ6450000

LD50/LC50:

CAS# 8042-47-5:
No information found
CAS# 61788-32-7:
Oral, mouse: LD50 = 12500 mg/kg
Oral, rat: LD50 = 17500 mg/kg.
CAS# 9003-29-6:
No information found
CAS# 68956-74-1:
No information found
CAS# 26140-60-3:
Oral, mouse: LD50 = 13200 mg/kg.

Carcinogenicity:

CAS# 8042-47-5: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 61788-32-7: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 9003-29-6: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 68956-74-1: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 26140-60-3: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

Neurotoxicity:

No information found

Other:

The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes

None of the components are on this list.

RCRA U Series Wastes

None of the components are on this list.

Section 14 - Transport Information

US DOT

Canadian TDG

Proper Shipping Name: Not regulated as a hazardous material

Not Regulated

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols: None listed

Risk Phrases: None listed

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

Not available

United Kingdom Occupational Exposure Limits

Not available

United Kingdom Maximum Exposure Limits

Not available

Canadian DSL/NDSL

CAS# 8042-47-5 is listed on Canada's DSL List.

CAS# 61788-32-7 is listed on Canada's DSL List.

CAS# 9003-29-6 is listed on Canada's DSL List.

CAS# 68956-74-1 is listed on Canada's DSL List.

CAS# 26140-60-3 is listed on Canada's DSL List.

Canadian WHMIS Classifications

Not available

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

Canadian Ingredient Disclosure List

Not available

US Federal**TSCA**

CAS# 8042-47-5 is listed on the TSCA Inventory.

CAS# 61788-32-7 is listed on the TSCA Inventory.

CAS# 9003-29-6 is listed on the TSCA Inventory.

CAS# 68956-74-1 is listed on the TSCA Inventory.

CAS# 26140-60-3 is listed on the TSCA Inventory.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

None of the components are on this list.

SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

SARA Hazard Categories

CAS# 8042-47-5: immediate.

SARA Section 313

None of the components are on this list.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors

None of the components are on this list.

Clean Water Act - Hazardous Substances

None of the components are on this list.

Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

OSHA - Specifically Regulated Chemicals

None of the components are on this list.

US State**State Right to Know**

Hydrogenated terphenyls can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Terphenyls can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

None of the components are on this list.

California No Significant Risk Level

None of the components are on this list.

None of the components are on this list.

None of the components are on this list.

None of the components are on this list.

None of the components are on this list.

Section 16 - Other Information

No information found

MSDS Creation Date: March 27, 2008

Revision Date: March 27, 2008

Revisions were made in Sections:

5, 6, 9, 14

This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from us, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.