

SCIENTIFIC POLYMER PRODUCTS, INC.  
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All materials are supplied for laboratory use only, not for drug or household use. Further, our products are supplied on the condition that the customer accepts responsibility for their handling and use. It is therefore recommended that these materials be handled only by qualified individuals.

The information presented herein is believed to be accurate and represents the best information currently available to us. The information has been compiled from sources considered to be dependable and is accurate to the best of the seller's knowledge. However, since the conditions of handling and use are beyond our control, we assume no liability and make no warranty whatsoever, expressed, implied, or of merchantability regarding the accuracy or completeness of such data or the results to be obtained from the use thereof.

Users should make their own investigation to determine the suitability of the information for their particular purposes and are expected to exercise reasonable care as with any other similar materials.

## I. IDENTIFICATION

Product: Plasticizer Sample Kit - Catalog Number 301  
LOT# 410221

Description: Metal cabinet with glass vials in plastic drawers

Contents: Plasticizers, as identified on the list below, 10-20 grams each

## II. HAZARDOUS INGREDIENTS NONE LISTED

## III. PHYSICAL DATA

P-181 Di-(2-ethylhexyl phthalate) Listed as a carcinogen

## IV. FIRE AND EXPLOSION DATA

**Extinguishing Media:** Dry chemical, foam, water spray, CO<sub>2</sub>

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion Hazards:** As with similar materials, burning can release toxic fumes and vapors. Hazardous products of combustion may include fumes, smoke and CO. Care should also be exercised to avoid dust build up. This could lead to possible explosive conditions.

## V. HEALTH HAZARD DATA

**Threshold Limit Value:** Similar materials have been determined to be practically non-toxic. (Example: Butyl benzyl phthalate – Oral LD<sub>50</sub> (Rat): 204,000 mg/kg; Dermal LD<sub>50</sub> (Rabbit): 10,000 mg/kg).

**Effects of Overexposure:** Under normal conditions, materials present no significant hazards to health. As with similar materials, particles can be mechanically irritating to eyes and dust may produce a dehydrative effect on skin, mucous membranes, and internal tissues.

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**Emergency and First Aid Procedures:** IN ALL CASES, IF IRRITATION OR ILLNESS DEVELOPS, SEEK MEDICAL ASSISTANCE.

**Inhalation:** Remove to fresh air, assist in breathing, if required

**Eyes:** Flush thoroughly with water for 15 minutes.

**Skin:** Wash affected area with soap and water for 15 minutes.

**Ingestion:** Not a consideration in industrial usage.

### VI. REACTIVITY DATA

**Stability:** Stable   **Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** High temperatures, open flames, sparks

**Materials to Avoid:** Oxidizing materials

**Hazardous Decomposition Products:** Ammonia, CO2, hydrogen cyanide, aldehydes

### VII. SPILL OR LEAK PROCEDURES

**Steps to be taken if material is spilled:** If liquid, absorb with high surface absorbent, such as sawdust, diacelite, celite or diatomaceous earth. If solid, scoop up and place in a suitable container for disposal. Wash area thoroughly with a strong detergent.

**Waste Disposal Method:** In accordance with Local, State and Federal regulations.

### VIII. SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** NIOSH-approved equipment when airborne exposure is excessive

**Ventilation:** Local exhaust recommended

**Protective Gloves:** Plastic coated recommended

**Eye Protection:** Safety glasses recommended as good industrial practice.

**Other Protective Equipment:** Eyebath recommended.

### IX. SPECIAL PRECAUTIONS

**Handling and Storage:** Keep containers dry and tightly closed. Store materials at ambient temperatures.

**Other Precautions:** Chloroparaffins should not be heated above 100°C for extended periods of time. Avoid spills and dust build up. Practice good housekeeping.

### X. SPECIAL LISTING

The following data is provided as specific information on the polymers supplied in the Plasticizer Sample Kit, Catalog Number 301. This data is believed to be accurate and represents the best information currently available to us. Although every care has been taken in preparation of this data, we cannot accept any liability for errors.

**MATERIAL SAFETY DATA SHEET-PLASTICIZER SAMPLE KIT-CAT. NO. 301**

<b>Cat#</b>	<b>Description</b>	<b>Appearance</b>	<b>Fp</b>	<b>Specific Gravity</b>	<b>Water Soluble</b>	<b>Melting/ Softening Point</b>
P-100	Chloroparaffin, 41% Cl CAS# 63449-39-8	Liquid	>450°F	1.15 (50°C)	Nil	N/A
P-101	Chloroparaffin, 50% Cl CAS# 63449-39-8	Liquid	>450°F	1.220 (50°C)	Nil	N/A
P-102	Chloroparaffin, 60% Cl CAS# 108171-26-2	Liquid	>450°F	1.32 (50°C)	Nil	N/A
P-103	Chloroparaffin, 70% Cl CAS# 63449-39-8	Powder	392°F	1.6 (25°C)	Nil	N/A
P-104	Diethylene glycol dibenzoate CAS# 120-55-8	Liquid	390°F	1.2 (25°C)	Insoluble	24°C
P-105	Dipropylene glycol dibenzoate CAS# 27138-31-4	Liquid	390°F	1.120 (25°C)	Insoluble	-40°C
P-106	Polyethylene glycol dibenzoate CAS# 9004-86-8	Liquid	478°F	1.16 (25°C)	Yes (Hot)	28°C
P-107	Acetyl tri-n-butyl citrate CAS# 77-90-7	Liquid	400°F	1.048 (25°C)	<0.1%	-59°C
P-108	Acetyl triethyl citrate CAS# 77-89-4	Liquid	370°F	1.135 (25°C)	72% (25°C)	-42°C
P-109	Tri-n-butyl citrate CAS# 77-94-1	Liquid	365°F	1.042 (25°C)	Insoluble	-62°C
P-110	Triethyl citrate CAS# 77-93-0	Liquid	303°F	1.136 (25°C)	5.7% (25°C)	-46°C
P-112	Dimethyl isophthalate CAS# 1459-93-4	Flakes	345°F	1.1477 (85°C)	Insoluble	67-68°C
P-113	Triisodecyl trimellitate CAS# 36631-30-8	Liquid	520°F	0.9690 (20°C)	Insoluble	N/A
P-115	Tri(n-octyl, n-decyl) trimellitate CAS# 67989-23-5	Liquid	540°F	0.9730 (20°C)	<1.0%	-17°C
P-116	Dicyclohexyl phthalate CAS# 84-61-7	Powder	405°F	1.148 (20°C)	Insoluble	63°C
P-117	Glyceryl tri(acetyl ricinoleate) CAS# 101-34-8	Liquid	535°F	0.967 (25°C)	Insoluble	N/A
P-118	Propylene glycol ricinoleate CAS# 26402-31-3	Liquid	415°F	0.960 (25°C)	Insoluble	N/A
P-119	Butyl ricinoleate CAS# 151-13*2	Liquid	405°F	0.919 (25°C)	Insoluble	-10°C
P-120	n-Butyl acetyl ricinoleate CAS# 140-04-5	Liquid	395°F	0.931 (25°C)	Insoluble	N/A
P-121	Methyl ricinoleate CAS# 141-24-2	Liquid	370°F	0.925 (25°C)	Insoluble	N/A
P-122	Methyl acetyl ricinoleate CAS# 140-03-4	Liquid	375°F	0.936 (25°C)	Insoluble	N/A
P-123	Diisobutyl adipate CAS# 141-04-8	Liquid	320°F	0.950 (25°C)	<0.1% (70°C)	-17°C
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						<b>Point</b>
P-124	Diisobutyl phthalate CAS# 84-69-5	Liquid	345°F	1.04 (25°C)	<0.1% (70°C)	N/A
P-125	Butyl octyl phthalate CAS# 84-78-6	Liquid	370°F	0.996 (25°C)	Slight	N/A
P-126	Epoxidized linseed oil CAS# 8016-11-3	Liquid	554°F	1.030 (25°C)	0.1% (20°C)	N/A
P-127	Epoxidized soy bean oil CAS# 8013-07-8	Liquid	554°F	0.992 (25°C)	0.01% (20°C)	N/A
P-129	Diundecyl phthalate CAS# 3648-20-2	Liquid	490°F	0.95 (20°C)	3.1 mg/L (25°C)	N/A
P-130	n-Ethyl-o,p-toluenesulfonamide CAS# 1077-56-1	Liquid	345°F	1.2 (25°C)	Practically Insoluble	18°C
P-131	o,p-Toluenesulfonamide CAS# 1333-07-9	Powder	356°F	1.353 (25°C)	5 g/L (25°C)	105°C
P-132	Di(2-ethylhexyl) adipate CAS# 103-23-1	Liquid	377°F	0.924 (25°C)	Less than 0.01%	<-70°C
P-133	Tributyl phosphate CAS# 126-73-8	Liquid	239°F	0.98 (20°C)	0.1% (20°C)	<-70°C
P-134	Triphenyl phosphate CAS# 115-86-6	Flakes	437°F	1.27 (60/20°C)	1.9 mg/L (25°C)	49°C
P-135	Butyl benzyl phthalate CAS# 85-68-7	Liquid	390°F	1.12 (25°C)	2.82 mg/L (20°C)	<-35°C
P-136	t-Butylphenyl diphenyl phosphate CAS# 56803-37-3	Liquid	505°F	1.181 (25°C)	3.2 mg/L (25°C)	<-20°C
P-137	2-Ethylhexyl diphenyl phosphate CAS# 1241-94-7	Liquid	433°F	1.091 (25°C)	0.31 mg/L (25°C)	N/A
P-138	Isodecyl diphenyl phosphate CAS# 29761-21-5	Liquid	465°F	1.069-1.079 (25°C)	0.75 mg/L (25°C)	<-35°C
P-140	Diisodecyl adipate CAS# 27178-16-1	Liquid	435°F	0.912 (15°C)	Negligible	-59°C
P-141	Di(tridecyl) adipate CAS# 16958-92-2	Liquid	455°F	0.909 (15°C)	Negligible	-59°C
P-142	Diisooctyl azelate CAS# 26544-17-2	Liquid	425°C	0.920 (20°C)	Negligible	-68°C
P-143	Diisodecyl azelate CAS# 28472-97-1	Liquid	445°F	0.912 (20°C)	Negligible	-70°C
P-145	Dimethyl azelate CAS# 1732-10-1	Liquid	300°F	1.007 (20°C)	Negligible	-8°C
P-146	Bis(2-hydroxyethyl) dimerate CAS# 68855-78-7	Liquid	350°F	0.952 (25°C)	Negligible	N/A
P-147	Di-(2-ethylhexyl) azelate CAS# 103-24-2	Liquid	415°F	0.92 (25°C)	Negligible	-67°C
P-148	Di-n-hexyl azelate CAS# 109-31-9	Liquid	400°F	0.93 (25°C)	Negligible	-23°C

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P-149	Tetrahydrofurfuryl oleate CAS# 5420-17-7	Liquid	415°F	0.93 (25°C)	Negligible	-25°C
P-150	Glycerol monostearate CAS# 31566-31-1	Solid	>500°F	0.910 (25°C)	Insoluble	58°C
P-151	Ethylene glycol monostearate CAS# 111-60-4	Solid	425°F	0.85 (60/25°C)	Insoluble	50°C
P-152	Propylene glycol monostearate CAS# 1323-39-3	Solid	470°F	0.88 (45/25°C)	Insoluble	36°C
P-153	Glycerol monooleate CAS# 25496-72-4	Liquid	425°F	0.95 (25°C)	Insoluble	N/A
P-154	Glycerol trioleate CAS# 122-32-7	Liquid	565°F	0.916 (25°C)	Insoluble	-5.5°C
P-155	Isopropyl myristate CAS# 110-27-0	Liquid	308°F	0.856 (25°C)	Insoluble	-5°C
P-156	Methyl oleate CAS# 112-62-9	Liquid	350°F	0.874 (25°C)	Insoluble	-19°C
P-157	Isopropyl palmitate CAS# 142-91-6	Liquid	320°F	0.852 (25°C)	Insoluble	14°C
P-158	n-Butyl stearate CAS# 123-95-5	Liquid	>200°F	0.86 (25°C)	Insoluble	16°C
P-159	n-Propyl oleate CAS# 111-59-1	Liquid	330°F	0.869 (25°C)	Insoluble	-20°C
P-160	Isopropyl isostearate CAS# 68171-33-5	Liquid	345°F	0.858 (25°C)	Insoluble	-29°C
P-161	Methyl palmitate CAS# 112-39-0	Solid	330°F	0.84 (25°C)	Negligible	27°C
P-162	Methyl stearate CAS# 112-61-8	Solid	307°F	0.84 (25°C)	Insoluble	36°C
P-163	Methyl laurate CAS# 111-82-0	Liquid	305°F	0.87 (25°C)	Negligible	5°C
P-164	Methyl linoleate, 75% CAS# 68605-14-1	Liquid	350°F	0.88 (25°C)	Negligible	18°C
P-165	Dicapryl adipate CAS# 108-63-4	Liquid	405°F	0.914 (20°C)	<0.1% (25°C)	-32°C
P-167	Dicapryl phthalate CAS# 131-15-7	Liquid	395°F	0.98 (20°C)	Negligible	-60°C
P-168	Dimethyl phthalate CAS# 131-11-3	Liquid	295°F	1.194 (20°C)	Slight	-1°C
P-169	Dimethyl sebacate CAS# 106-79-6	Liquid	320°F	0.99 (20°C)	Slight	26°C
P-170	Diethyl succinate CAS# 123-25-1	Liquid	230°F	1.0418 (20°C)	Slight	-20.9°C
P-171	Tricapryl trimellitate CAS# 27251-75-8	Liquid	475°F	0.98 (20°C)	Negligible	-35°C
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P-172	Di-(2-ethylhexyl) sebacate CAS# 122-62-3	Liquid	420°F	0.920 (20°C)	<0.1%	-55°C

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P-173	Dibutyl sebacate CAS# 109-43-3	Liquid	380°F	0.94 (20°C)	<0.1%	-11°C
P-174	Diisodecyl phthalate CAS# 68515-49-1	Liquid	435°F	0.97 (23°C)	Insoluble	-54°C
P-176	Ditridecyl phthalate CAS# 119-06-2	Liquid	445°F	0.949 (23°C)	Insoluble	-30°C
P-177	Diisooctyl phthalate CAS# 27554-26-3	Liquid	400°F	0.982 (20°C)	Negligible	N/A
P-178	Dibutyl fumarate CAS# 105-75-9	Liquid	288°F	0.984 (23°C)	Negligible	N/A
P-179	Di-n-butyl maleate CAS# 105-76-0	Liquid	284°F	0.99 (23°C)	<0.1%	<-65°C
P-180	Di-(2-ethylhexyl) maleate CAS# 142-16-5	Liquid	375°F	0.94 (23°C)	0.2 (23°C)	N/A
P-181	Di-(2-ethylhexyl phthalate) CAS# 117-81-7	Liquid	399°F	0.99 (25°C)	Negligible	N/A
P-182	Tricresyl phosphate CAS# 1330-78-5	Liquid	437°F	1.160-1.175 (20°C)	Insoluble	N/A
P-183	Diethyl phthalate CAS# 84-66-2	Liquid	325°F	1.12 (20°C)	0.12 g/L	-40°C
P-184	Glyceryl triacetate CAS# 102-76-1	Liquid	308°F	1.16 (24°C)	Moderate	3°C
P-185	Butyl oleate CAS# 142-77-8	Liquid	356°F	0.83 (25°C)	Insoluble	-55°C
P-186	Tri-butoxyethyl phosphate CAS# 78-51-3	Liquid	435°F	1.02 (20°C)	0.11% (25°C)	<-70°C
P-187	Di(n-heptyl, n-nonyl) adipate CAS# 68515-75-3	Liquid	400°F	0.920 (25°C)	<0.01% (25°C)	N/A
P-188	Dihexyl phthalate CAS# 68515-50-4	Liquid	379°F	1.01 (20°C)	Insoluble	N/A
P-189	Diisononyl phthalate CAS# 68515-48-0	Liquid	415°F	0.970 (20°C)	Insoluble	N/A
P-190	2-Ethylhexyl epoxy tallate CAS# 61789-01-3	Liquid	380°F	0.9260 (20°C)	<0.01%	-8.5°C
P-191	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate CAS# 6846-50-0	Liquid	262°F	0.945 (20°C)	1.5 mg/L	-70°C
P-192	Diphenyl isophthalate CAS# 744-45-6	Powder	435°F	1.2	Negligible	142°C
P-193	Di-n-butyl phthalate CAS# 84-74-2	Liquid	340°F	1.05 (20°C)	0.11 g/L (20°C)	-37°C
P-194	Diisoheptyl phthalate CAS# 71888-89-6	Liquid	390°F	0.995 (20°C)	Negligible	-40°C
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P-196	Triisononyl trimellitate CAS# 53894-23-8	Liquid	465°F	0.98 (20°C)	Insoluble	N/A
P-197	Diisononyl adipate CAS# 33703-08-1	Liquid	390°F	0.92 (20°C)	Insoluble	-56°C

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