



Basell Profax PD626 (Polypropylene)



MATERIAL SAFETY DATA SHEET



MSDS Ref. No: PD626
Date-Revised: 06/03/1998
Revision No: 1

Pro-fax PD626

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Pro-fax PD626

PRODUCT DESCRIPTION: Polypropylene Homopolymer Pellets

MANUFACTURER

Basell Canada Inc.
339 LaSalle Road
Corunna, Ontario
N0N 1G0

Contact: CANUTEC

Product Stewardship: 519-481-1111

Basell USA Inc.
Three Little Falls Centre
2801 Centerville Road
P.O. Box 15439
Wilmington, DE 19850-5439

Contact: CHEMTREC

Product Stewardship: 302-996-6000

24 HR. EMERGENCY TELEPHONE NUMBERS

Emergency Phone: (613) 996-6666

Emergency Phone: (800) 424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Polypropylene homopolymer	>95	9003-	07-0
Stabilizers (trade secret)	<5		

COMMENTS:

This product is not considered a hazardous material at temperatures below the melting point as

determined by Basell according to the U.S. Occupational Safety and Health Act definitions and regulation, including the Hazard Communication Standard 29 CFR 1910.1200. This product is not considered a controlled substance by Basell according to Canada's WHMIS regulations.

Threshold Limit Values (TLV) or Permissible Exposure Limit (PEL) values are not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by ACGIH (American Conference of Governmental Hygienists), or an OSHA (Occupational Safety and Health Administration) PEL standard is issued, Basell suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Translucent to white solid pellets

IMMEDIATE CONCERNS: Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

POTENTIAL HEALTH EFFECTS

EYES: Process vapors may irritate eyes.

SKIN: Exposure to molten resin may cause thermal burns.

INGESTION: Not Applicable

INHALATION: Process vapors may cause respiratory tract irritation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation or redness.

SKIN: Not Applicable

INGESTION: Not Applicable

INHALATION: Irritation of the nose, throat and respiratory tract.

ACUTE TOXICITY:

Exposure to process vapors may cause eye and respiratory tract irritation.

CHRONIC:

None Known

CARCINOGENICITY:

None Known

MUTAGENICITY:

None Known

REPRODUCTIVE TOXICTY

REPRODUCTIVE EFFECTS: None Known

TERATOGENIC EFFECTS: None Known

MEDICAL CONDITIONS AGGRAVATED: None Known

ROUTES OF ENTRY: Eye, Inhalation

TARGET ORGAN STATEMENT: None Known

CANCER STATEMENT: This product is not considered to be a carcinogen by OSHA, IARC or NTP.

IRRITANCY: Exposure to process vapors may cause eye and respiratory tract irritation.

SENSITIZATION: None Known

WARNING CAUTION LABELS: Burn Risk - Avoid contact with molten resin.
Explosion Risk - Prevent accumulation of dust particles.
Slipping Risk - Keep walking surfaces free of spilled material.
Vapor Risk - Provide ventilation to avoid exposure to process vapors.

COMMENTS HEALTH: None

HEALTH HAZARDS: Process vapors may cause eye and respiratory tract irritation.

PHYSICAL HAZARDS: Spilled material may present a slipping hazard.
Exposure to molten resin may cause thermal burns.

4. FIRST AID MEASURES

EYES: Flush eyes with water for 15 minutes. Get medical attention.

SKIN: Molten Resin: If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.

INGESTION: Not Applicable

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

ANTIDOTES: Not Applicable

NOTES TO PHYSICIAN: None

ADDITIONAL INFORMATION: None

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: >329°C (625°F)

FLAMMABLE LIMITS: Not Yet Determined

AUTOIGNITION TEMPERATURE: >357°C (675°F)

EXTINGUISHING MEDIA: Use foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.

EXPLOSION HAZARDS: Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.

FIRE FIGHTING PROCEDURES: Standard procedures for Class A fires.

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

SENSITIVE TO STATIC DISCHARGE: Static discharge could be an ignition

source for a combustible concentration of dust.

SENSITIVITY TO IMPACT: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Sweep up material and place in a disposal container.

LARGE SPILL:

Vacuum or sweep up material and place in a disposal container.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Keep pellets out of waterways.

LAND SPILL: Not yet Determined

AIR SPILL: Not yet Determined

GENERAL PROCEDURES: Vacuum or sweep up material and place in a disposal container.

RELEASE NOTES: None

SPECIAL PROTECTIVE EQUIPMENT: None

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep away from heat, sparks and flame.

HANDLING:

Ground and bond containers when transferring material.

STORAGE:

This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers.

STORAGE TEMPERATURE: 60°C (140°F) maximum

LOADING TEMPERATURE: Not Determined

LOADING/UNLOADING VISCOSITY: Not Determined

STORAGE PRESSURE: Not yet Determined

STORAGE TEMPERATURE: Store in a cool place below 140 F, 60 C.

LOADING TEMPERATURE NOTES: Not yet Determined

SHELF LIFE: Not yet Determined

SPECIAL SENSITIVITY: Not yet Determined

ELECTROSTATIC ACCUMULATION HAZARD: Material may accumulate static charges during transfers. Ground and bond containers when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide adequate room ventilation.
Provide adequate ventilation at the extruder to minimize exposure to process vapors.
Eliminate ignition sources during repair and maintenance operations.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles).

SKIN: When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.

PROTECTIVE CLOTHING: When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

WORK HYGIENIC PRACTICES: Not Established

OTHER USE PRECAUTIONS: Eyewash fountains and safety showers should be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Slight waxy odor

APPEARANCE: Pellet

COLOR: Translucent to white

FREEZING POINT: Not Applicable

MELTING POINT: >160°C (320°F)

DENSITY: Not Determined

SPECIFIC GRAVITY: 0.88 to 0.92

VISCOSITY: Not Available

MOLECULAR WEIGHT: Not Available

(VOC) NOTES: Not yet Determined

COMMENTS:

PHYSICAL STATE: None

PERCENT VOLATILE: < 0.4%

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

BOILING POINT: Not Applicable

WATER SOLUBILITY: Negligible

EVAPORATION RATE: Not Applicable

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Keep away from heat, sparks and flame.

POLYMERIZATION: Product will not undergo polymerization.

HAZARDOUS DECOMPOSITION PRODUCTS: At elevated temperatures the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, aldehydes, unidentified organic compounds.

INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS:

Polypropylene Homopolymer Toxicological Information

LD50/LC50 - LETHAL DOSE/CONC 50% KILL

A. Rat

1. LD50; Route: Intraperitoneal; Dose: >110 gm/kg; Toxic Effects: Sense Organs and special senses - Lacrimation; Sense organs and special senses - Ptosis; Behavioral - Convulsions or effect on seizure threshold; Reference: Yakuri to Chiryo. Pharmacology and Therapeutics 14:1109, 1986. <CODEN YACHDS>

2. LD50; Route: Intravenous; Dose: >99 gm/kg; Toxic Effects: Behavioral - Tremor; Lungs, Thorax, or Respiration - Cyanosis; Nutritional and Gross Metabolic - Body temperature decrease; REFERENCE: Yakuri to Chiryo. Pharmacology and Therapeutics 14:1109, 1986. <CODEN YACHDS>

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available

ECOTOXICOLOGICAL INFORMATION: Not Available

DISTRIBUTION: Not Available

CHEMICAL FATE INFORMATION: Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: (1) Recycle (reprocess). (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or

provincial and federal regulations. (3) Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.

RCRA HAZARD CLASS: This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces.

This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR 261.33 paragraphs (e) or (f), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

14. TRANSPORT INFORMATION

SPECIAL SHIPPING NOTES: This product is not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

TITLE III NOTES: This product is not subject to SARA Title III requirements.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this product are in compliance with TSCA.

OSHA HAZARD COMM. RULE: This product is not considered a hazardous material at temperatures below the melting point as determined by Basell according to OSHA definitions.

CLEAN WATER ACT: This product is regulated under EPA's Clean Water Act/NPDES rules as "floating material". In addition, this product is considered "significant material" under the EPA's storm water permit rules.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This product is not considered a controlled substance under WHMIS. This MSDS meets WHMIS format requirements.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All ingredients in this product are listed under CEPA on the DSL.

EUROPEAN COMMUNITY

EUROPEAN COMMUNITY REGULATORY: All ingredients are in compliance with EINECS/ELINCS.

16. OTHER INFORMATION

REASON FOR ISSUE: update

APPROVED BY: Richard T. LeNoir **TITLE:** Sfty & Reg. Affairs Specialist

REVISION SUMMARY

Revision #: 3

This MSDS replaces the November 05, 1996 MSDS. Any changes in information are as follows:
In Section 1
Date Prepared

MANUFACTURER DISCLAIMER:

The information contained in this Material Safety Data Sheet has been compiled from sources which Basell considers reliable and accurate to the best of Basell's knowledge. The information relates only to the specific product described above, and not to use of the product in combination with another material. Customers and other users should read this MSDS and the product label carefully before using the product. Basell neither assumes, nor authorizes anyone to assume on Basell's behalf, any liability in connection with the use of the information in this MSDS.

Customers and other users should do their own testing before making commercial use of the product to ensure that the product is fit for the intended application and that the product can be used, and any waste material disposed of, safely, properly, and legally based on the customer's or other user's circumstances.

BASELL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT, INCLUDING (WITHOUT LIMITATION) WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE CUSTOMER OR OTHER USER OF THE PRODUCT ASSUMES ALL RISK AND LIABILITY ARISING OUT OF THE USE OF THE PRODUCT, WHETHER USED ALONE OR IN COMBINATION WITH OTHER MATERIALS. BASELL'S LIABILITY, IF ANY, FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE (INCLUDING THAT OF BASELL) OR OTHER TORT, STRICT LIABILITY, OR ANY OTHER CLAIM SHALL NOT EXCEED IN AMOUNT THE PURCHASE PRICE OF BASELL PRODUCTS WITH RESPECT TO WHICH SUCH CAUSE AROSE. IN NO EVENT SHALL BASELL BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES.

Chemical Compatibility

Our products are leak tested before they are shipped, so you should never find one of our products to leak. If you ever find that one of our products is leaking, chances are you are looking at a chemical compatibility issue. Don't worry, this is an issue that we can solve with a little testing and your help.

The first thing to keep in mind is that you should test every chemical you plan to use with the product. The fact that water worked fine in the first test, has little relevance to the acid that you actually intend to use.

Next, know what to look for. If you find that the couplings are harder to connect then they have been in the past, you might be looking at a chemical compatibility issue. In an extreme case, if you find that the Shut-Off valves "Freeze" open, then you are very likely looking at a chemical issue. No, the products are not designed to work that way, and no it is not a flaw in the product design. What is happening is, at least one of the materials is swelling from the chemical, and because of the close tolerance of our products, the valve is clamped open. Again, this is easily solved with a little testing.

Don't be afraid to talk to us about any issues that you may have, in most cases we can easily solve it. After all, we have a very good idea what we are doing here.

The table listed below is a good place to start your testing. If you see that any of the chemicals are listed as less than good, you may need a different material than what is on our standard products. Go ahead, call us at 970.593.3185 so that we can lend you a hand. Because we offer semi-custom options, we can help you figure out what you need.

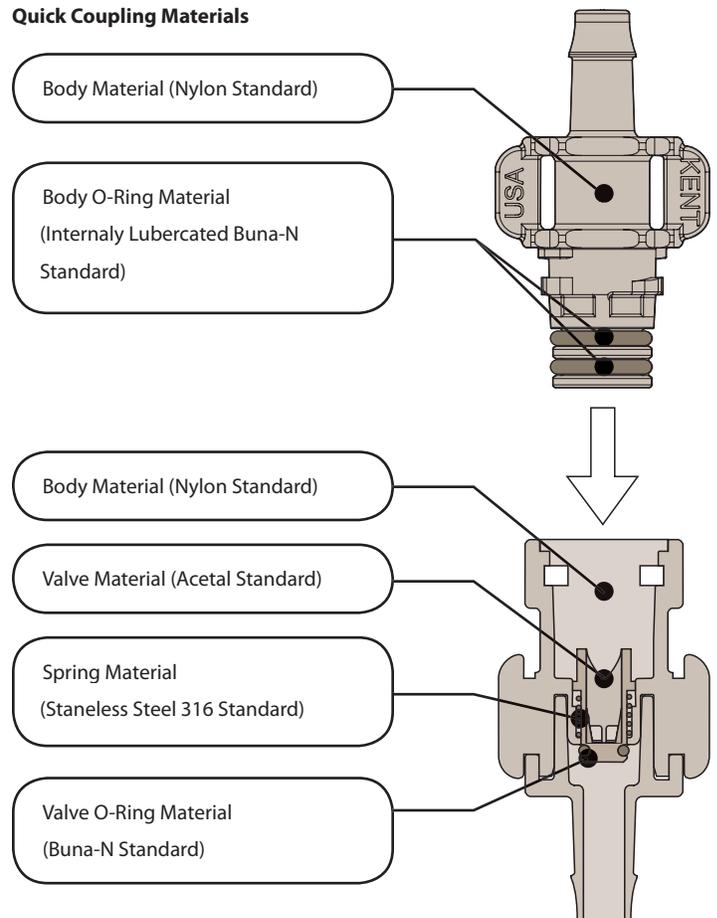
OK now the legal stuff. The data presented in this table is for reference only. We recommend that you obtain Free Samples of our products for your testing. All information is supplied without expressed or implied warranty and does not constitute an endorsement.

Keep in mind that different products will have materials in them. Quick couplings have a number of different materials and are some times not visible when looking at the product. Be sure to test properly test your products before use.

We specialize in solutions and can solve most chemical issues



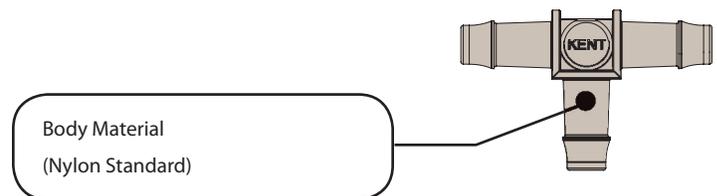
Quick Coupling Materials



Quick Coupling Chemical Compatibility Symptoms

- Hard Connection or Disconnection
- Valve "Freezing"
- Leaking from the Coupling
- Leaking from the Valve

Fitting Materials



Tube Fitting Chemical Compatibility Symptoms

- Product Becoming Softer
- Leaking From Side Wall
- Leaking around barb

Chemical Compatibility Information (Plastic Materials)

CHEMICAL	NYLON	ACETAL	POLYPROPYLENE	POLYCARBONATE	PVDF (KYNAR®)
Acetic Acid	Severe Effect	Severe Effect	B-Good	B-Good	C-Fair
Acetone	Excellent	Excellent	A-Excellent	D-Severe Effect	D-Severe Effect
Acetylene	Excellent	Excellent	A-Excellent	D-Severe Effect	A-Excellent
Alcohols:Amyl	Excellent	Excellent	B-Good	B-Good	A-Excellent
Alcohols:Benzyl	Good	Excellent	A-Excellent	N/A	A-Excellent
Alcohols:Butyl	Severe Effect	Excellent	A-Excellent	A-Excellent	A-Excellent
Alcohols:Diacetone	Excellent	Excellent	B-Good	N/A	A-Excellent
Alcohols:Ethyl	Excellent	Excellent	A-Excellent	B-Good	N/A
Alcohols:Hexyl	Excellent	Excellent	N/A	N/A	N/A
Alcohols:Isobutyl	Excellent	Excellent	A-Excellent	N/A	N/A
Alcohols:Isopropyl	Severe Effect	Excellent	A-Excellent	A-Excellent	N/A
Alcohols:Methyl	Good	Excellent	A-Excellent	B-Good	A-Excellent
Alcohols:Octyl	Excellent	Excellent	N/A	N/A	N/A
Alcohols:Propyl	Severe Effect	Excellent	A-Excellent	N/A	A-Excellent
Aluminum Hydroxide	Excellent	Excellent	A-Excellent	B-Good	A-Excellent
Antifreeze	Severe Effect	Severe Effect	D-Severe Effect	N/A	N/A
Barium Sulfate	Excellent	Good	B-Good	D-Severe Effect	A-Excellent
Benzene	Excellent	Excellent	D-Severe Effect	D-Severe Effect	A-Excellent
Benzoic Acid	Severe Effect	Good	B-Good	B-Good	A-Excellent
Brewery Slop	N/A	Good	N/A	N/A	N/A
Butter	N/A	Excellent	N/A	N/A	N/A
Buttermilk	Good	Excellent	A-Excellent	A-Excellent	N/A
Cane Juice	Excellent	Excellent	C-Fair	N/A	A-Excellent
Carbon Dioxide (dry)	Excellent	Excellent	A-Excellent	N/A	A-Excellent
Carbon Monoxide	Excellent	Excellent	A-Excellent	N/A	B-Good
Carbon Tetrachloride	Severe Effect	Good	D-Severe Effect	D-Severe Effect	A-Excellent
Catsup	Excellent	Good	A-Excellent	N/A	N/A
Chlorine (dry)	Severe Effect	Severe Effect	D-Severe Effect	N/A	A-Excellent
Chlorine Water	Fair	Severe Effect	D-Severe Effect	N/A	B-Good
Chlorobenzene (Mono)	Severe Effect	Severe Effect	C-Fair	D-Severe Effect	A-Excellent
Chocolate Syrup	Excellent	Excellent	A-Excellent	A-Excellent	N/A
Clorox® (Bleach)	Excellent	Severe Effect	D-Severe Effect	N/A	A-Excellent
Coffee	Excellent	Excellent	A-Excellent	N/A	N/A
Cyclohexanone	Excellent	Excellent	D-Severe Effect	D-Severe Effect	D-Severe Effect
Diesel Fuel	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent
Ethanol	Excellent	Excellent	A-Excellent	B-Good	N/A
Ethyl Acetate	Excellent	Excellent		D-Severe Effect	D-Severe Effect
Ethylene Glycol	Excellent	Good	A-Excellent	B-Good	A-Excellent
Fluorine	Severe Effect	Severe Effect	D-Severe Effect	C-Fair	A-Excellent
Fruit Juice	Excellent	Severe Effect	B-Good	N/A	A-Excellent
Gasoline (high-aromatic)	Excellent	Good	A-Excellent	A-Excellent	A-Excellent
"Gasoline, leaded, ref."	Excellent	Excellent	B-Good	A-Excellent	A-Excellent
"Gasoline, unleaded"	Excellent	Excellent	C-Fair	A-Excellent	A-Excellent
Grape Juice	Excellent	Excellent	N/A	N/A	A-Excellent
Honey	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent
Hydrocyanic Acid	Good	Good	C-Fair	N/A	A-Excellent
Hydrogen Peroxide 100%	Severe Effect	Severe Effect	B-Good	A-Excellent	A-Excellent
"Jet Fuel (JP3, JP4, JP5)"	Fair	Excellent	A-Excellent	A-Excellent	B-Good
Kerosene	Excellent	Excellent	B-Good	D-Severe Effect	A-Excellent
Magnesium Chloride	Excellent	Good	A-Excellent	A-Excellent	A-Excellent
Methanol (Methyl Alcohol)	Good	Excellent	A-Excellent	B-Good	A-Excellent
Methyl Ethyl Ketone	Excellent	Fair	B-Good	D-Severe Effect	D-Severe Effect
Milk	Excellent	Excellent	B-Good	A-Excellent	A-Excellent
Motor oil	Excellent	Good	A-Excellent	A-Excellent	B-Good
Nitric Acid (Concentrated)	Severe Effect	Severe Effect	D-Severe Effect	C-Fair	A-Excellent
Ozone	Severe Effect	Fair	B-Good	A-Excellent	A-Excellent
Phenol (10%)	Severe Effect	Good	B-Good	B-Good	A-Excellent
Rum	Excellent	Excellent	A-Excellent	N/A	N/A
Sea Water	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent
Sodium Chloride	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent
Sodium Hydroxide (80%)	Fair	Severe Effect	A-Excellent	D-Severe Effect	A-Excellent
Sulfuric Acid (75-100%)	Severe Effect	N/A	C-Fair	D-Severe Effect	A-Excellent
Sulfuric Acid (cold concentrated)	Severe Effect	N/A	A-Excellent	N/A	A-Excellent
Sulfuric Acid (hot concentrated)	Severe Effect	N/A	D-Severe Effect	D-Severe Effect	C-Fair
Tetrahydrofuran	Excellent	Excellent	C-Fair	D-Severe Effect	B-Good
Toluene (Toluol)	Excellent	Fair	C-Fair	D-Severe Effect	A-Excellent
Trichloroethylene	Fair	Severe Effect	C-Fair	N/A	B-Good
Urine	Good	Excellent	A-Excellent	N/A	A-Excellent
Water:Deionized	Excellent	N/A	A-Excellent	N/A	A-Excellent
Water:Distilled	Excellent	Good	A-Excellent	A-Excellent	A-Excellent
Water:Fresh	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent
Water:Salt	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent
Whiskey & Wines	Excellent	Excellent	A-Excellent	A-Excellent	A-Excellent

Disclaimer: The data presented in this publication is for reference only. It was compiled primarily from outside sources provided by feedstock materials suppliers and resin manufacturers, and is offered to our customers as a means of comparing the characteristics of resins and materials used by KENT Systems at the time of publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their ultimate suitability. All information is provided without implied or expressed warranty or guarantee by KENT Systems, or the resin and feedstock manufacturers. KENT Systems, assumes no liability with respect to the accuracy or completeness of the information contained herein and none of the information provided constitutes a recommendation or endorsement of any kind by KENT Systems.

Chemical Compatibility Information (Springs and O-Rings)

CHEMICAL	BUNA-N	VITON A	EPDM	SILICONE	STAINLESS STEEL
Acetic Acid	Fair	Good	Excellent	C-Fair	Severe Effect
Acetone	Severe Effect	Severe Effect	Excellent	D-Severe Effect	Excellent
Acetylene	Good	Excellent	Excellent	B-Good	Excellent
Alcohols:Amyl	Good	Excellent	Excellent	D-Severe Effect	Excellent
Alcohols:Benzyl	Severe Effect	Excellent	Good	N/A	Good
Alcohols:Butyl	Fair	Excellent	Excellent	B-Good	Excellent
Alcohols:Diacetone	Severe Effect	Severe Effect	Excellent	D-Severe Effect	Excellent
Alcohols:Ethyl	Fair	Excellent	Excellent	B-Good	Excellent
Alcohols:Hexyl	Excellent	Fair	Fair	B-Good	Excellent
Alcohols:Isobutyl	Good	Excellent	Excellent	A-Excellent	Excellent
Alcohols:Isopropyl	Good	Excellent	Excellent	A-Excellent	Good
Alcohols:Methyl	Excellent	Fair	Excellent	A-Excellent	Excellent
Alcohols:Octyl	Good	Good	Excellent	B-Good	Excellent
Alcohols:Propyl	Excellent	Excellent	Excellent	A-Excellent	Excellent
Aluminum Hydroxide	Excellent	Excellent	Excellent	N/A	Excellent
Antifreeze	Excellent	Excellent	Excellent	C-Fair	N/A
Barium Sulfate	Excellent	Excellent	Excellent	A-Excellent	Good
Benzene	Severe Effect	Excellent	Severe Effect	D-Severe Effect	Good
Benzoic Acid	Severe Effect	Excellent	Severe Effect	B-Good	Good
Brewery Slop	Excellent	Excellent	N/A	N/A	N/A
Butter	Excellent	Excellent	Excellent	B-Good	Fair
Buttermilk	Excellent	Excellent	Excellent	A-Excellent	Excellent
Cane Juice	Excellent	Excellent	Excellent	A-Excellent	Excellent
Carbon Dioxide (dry)	Excellent	Good	Good	B-Good	Excellent
Carbon Monoxide	Excellent	Excellent	Excellent	A-Excellent	Excellent
Carbon Tetrachloride	Severe Effect	Excellent	Severe Effect	D-Severe Effect	Good
Catsup	Excellent	Excellent	Excellent	N/A	Excellent
Chlorine (dry)	Good	Excellent	Excellent	D-Severe Effect	Excellent
Chlorine Water	Severe Effect	Excellent	Fair	D-Severe Effect	Fair
Chlorobenzene (Mono)	Severe Effect	Excellent	Severe Effect	D-Severe Effect	Excellent
Chocolate Syrup	Excellent	Excellent	Excellent	N/A	Excellent
Clorox® (Bleach)	Severe Effect	Excellent	Good	N/A	Excellent
Coffee	Excellent	Excellent	Excellent	A-Excellent	Excellent
Cyclohexanone	Severe Effect	Severe Effect	Good	D-Severe Effect	Excellent
Diesel Fuel	Excellent	Excellent	Severe Effect	D-Severe Effect	Excellent
Ethanol	Fair	Excellent	Excellent	B-Good	Excellent
Ethyl Acetate	Severe Effect	Severe Effect	Good	B-Good	Good
Ethylene Glycol	Excellent	Excellent	Excellent	A-Excellent	Good
Fluorine	Severe Effect	Fair	Excellent	D-Severe Effect	Fair
Fruit Juice	Excellent	Excellent	N/A	N/A	Excellent
Gasoline (high-aromatic)	Excellent	Excellent	Severe Effect	D-Severe Effect	Excellent
"Gasoline, leaded, ref."	Excellent	Excellent	Severe Effect	D-Severe Effect	Excellent
"Gasoline, unleaded"	Excellent	Excellent	Severe Effect	D-Severe Effect	Excellent
Grape Juice	Excellent	Excellent	Excellent	A-Excellent	Excellent
Honey	Excellent	Excellent	Excellent	A-Excellent	Excellent
Hydrocyanic Acid	Good	Excellent	Excellent	D-Severe Effect	Good
Hydrogen Peroxide 100%	Severe Effect	Excellent	Severe Effect	B-Good	Good
"Jet Fuel (JP3, JP4, JP5)"	Excellent	Excellent	Severe Effect	D-Severe Effect	Excellent
Kerosene	Excellent	Excellent	Severe Effect	D-Severe Effect	Excellent
Magnesium Chloride	Excellent	Excellent	Excellent	A-Excellent	Severe Effect
Methanol (Methyl Alcohol)	Excellent	Fair	Excellent	A-Excellent	Excellent
Methyl Ethyl Ketone	Severe Effect	Severe Effect	Excellent	D-Severe Effect	Excellent
Milk	Excellent	Excellent	Excellent	A-Excellent	Excellent
Motor oil	Excellent	N/A	Severe Effect	N/A	Excellent
Nitric Acid (Concentrated)	Severe Effect	Excellent	Severe Effect	D-Severe Effect	Excellent
Ozone	Severe Effect	Excellent	Excellent	A-Excellent	Good
Phenol (10%)	Severe Effect	Excellent	Good	D-Severe Effect	Good
Rum	Excellent	Excellent	Excellent	A-Excellent	Excellent
Sea Water	Excellent	Excellent	Excellent	A-Excellent	Fair
Sodium Chloride	Excellent	Excellent	Excellent	A-Excellent	Good
Sodium Hydroxide (80%)	Severe Effect	Severe Effect	Good	A-Excellent	Fair
Sulfuric Acid (75-100%)	Fair	Excellent	Good	D-Severe Effect	Fair
Sulfuric Acid (cold concentrated)	Severe Effect	Good	Fair	D-Severe Effect	Fair
Sulfuric Acid (hot concentrated)	Severe Effect	Excellent	Severe Effect	D-Severe Effect	Severe Effect
Tetrahydrofuran	Severe Effect	Severe Effect	Severe Effect	D-Severe Effect	Excellent
Toluene (Toluol)	Severe Effect	Fair	Severe Effect	D-Severe Effect	Excellent
Trichloroethylene	Severe Effect	Excellent	Severe Effect	D-Severe Effect	Good
Urine	Excellent	Excellent	Excellent	N/A	Excellent
Water:Deionized	Excellent	Excellent	Excellent	N/A	Excellent
Water:Distilled	Excellent	Excellent	Excellent	C-Fair	Excellent
Water:Fresh	Excellent	Excellent	Excellent	B-Good	Excellent
Water:Salt	Excellent	Excellent	Excellent	B-Good	Good
Whiskey & Wines	Excellent	Excellent	Excellent	A-Excellent	Excellent

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