SAFETY DATA SHEET

1. Identification

Product identifier **EPA Method 525.3 PCB Congeners Mixture**

Other means of identification

Item M-EPA5253PCB1B0

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc.

Address 660 Tower Lane
West Chester, PA 19380
United States

Telephone Toll Free 800-452-9994
Direct 610-692-3026

Website www.chemservice.com

E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300
Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 3

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/eye protection/face protection.

Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	99.93% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.93% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	99.93
2,2',3,4,4',5,5'-Heptachlorobiphenyl		35065-29-3	0.01
2,2',3,4,4',5'-Hexachlorobiphenyl		35065-28-2	0.01
2,2',3,4',5',6-Hexachlorobiphenyl		38380-04-0	0.01
2,2',4,4',5,5'-Hexachlorobiphenyl		35065-27-1	0.01
2,2',5,5'-Tetrachlorobiphenyl		35693-99-3	0.01
2,2',5-Trichlorobiphenyl		37680-65-2	0.01
2,3,3',4',6-Pentachlorobiphenyl		38380-03-9	0.01
2,3',4,4',5-Pentachlorobiphenyl		31508-00-6	0.01
2,4,4'-Trichlorobiphenyl		7012-37-5	0.01
2,4'-Dichlorobiphenyl		34883-43-7	0.01
2.2'.3.5'-Tetrachlorobiphenyl		41464-39-5	0.01
2.3'.4'.5-Tetrachlorobiphenyl		32598-11-1	0.01
2-Chlorobiphenyl		2051-60-7	0.01
4-Chlorobiphenyl		2051-62-9	0.01

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	PEL	1 mg/m3
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	PEL	1 mg/m3
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	PEL	1 mg/m3
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	PEL	1 mg/m3
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	PEL	1 mg/m3
2-Chlorobiphenyl (CAS 2051-60-7)	PEL	1 mg/m3
4-Chlorobiphenyl (CAS 2051-62-9)	PEL	1 mg/m3
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	TWA	1 mg/m3
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	TWA	1 mg/m3
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	TWA	1 mg/m3
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	TWA	1 mg/m3
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	TWA	1 mg/m3
2-Chlorobiphenyl (CAS 2051-60-7)	TWA	1 mg/m3
4-Chlorobiphenyl (CAS 2051-62-9)	TWA	1 mg/m3
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)	TWA	0.001 mg/m3
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)	TWA	0.001 mg/m3
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)	TWA	0.001 mg/m3
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)	TWA	0.001 mg/m3
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	TWA	0.001 mg/m3
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)	TWA	0.001 mg/m3
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)	TWA	0.001 mg/m3
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Can be absorbed through the skin.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Can be absorbed through the skin.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Can be absorbed through the skin.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Can be absorbed through the skin.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Can be absorbed through the skin.
2-Chlorobiphenyl (CAS 2051-60-7)	Can be absorbed through the skin.
4-Chlorobiphenyl (CAS 2051-62-9)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Skin designation applies.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Skin designation applies.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Skin designation applies.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Skin designation applies.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Skin designation applies.
2-Chlorobiphenyl (CAS 2051-60-7)	Skin designation applies.
4-Chlorobiphenyl (CAS 2051-62-9)	Skin designation applies.

US - Tennessee OELs: Skin designation

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Can be absorbed through the skin.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Can be absorbed through the skin.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Can be absorbed through the skin.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Can be absorbed through the skin.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Can be absorbed through the skin.
2-Chlorobiphenyl (CAS 2051-60-7)	Can be absorbed through the skin.
4-Chlorobiphenyl (CAS 2051-62-9)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Can be absorbed through the skin.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Can be absorbed through the skin.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Can be absorbed through the skin.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Can be absorbed through the skin.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Can be absorbed through the skin.
2-Chlorobiphenyl (CAS 2051-60-7)	Can be absorbed through the skin.
4-Chlorobiphenyl (CAS 2051-62-9)	Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Can be absorbed through the skin.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Can be absorbed through the skin.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Can be absorbed through the skin.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Can be absorbed through the skin.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Can be absorbed through the skin.
2-Chlorobiphenyl (CAS 2051-60-7)	Can be absorbed through the skin.
4-Chlorobiphenyl (CAS 2051-62-9)	Can be absorbed through the skin.

Appropriate engineering controls Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-138.46 °F (-94.7 °C) estimated
Initial boiling point and boiling range	132.89 °F (56.05 °C) estimated
Flash point	-4.0 °F (-20.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	2.6 % estimated
Flammability limit - upper (%)	12.8 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	309.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	869 °F (465 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.79003 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.93 % estimated
Specific gravity	0.79 estimated
VOC (Weight %)	99.93 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity Narcotic effects.

Components	Species	Test Results
2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)		
Acute		
Oral		
LD50	Mouse	> 64.3 mg/kg
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,4'-Dichlorobiphenyl (CAS 34883-43-7)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg

Components	Species	Test Results
2-Chlorobiphenyl (CAS 2051-60-7)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
4-Chlorobiphenyl (CAS 2051-62-9)		
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
LC50	Rat	76 mg/l, 4 Hours
Vapor		
LC50	Rat	50.1 mg/l
LC50	Rat	50.1 mg/l, 8 Hours
Oral		
LD50	Mouse	5.2 g/kg
	Rat	5800 mg/kg
		2.2 ml/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	1 Carcinogenic to humans.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	1 Carcinogenic to humans.
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)	1 Carcinogenic to humans.
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)	1 Carcinogenic to humans.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	1 Carcinogenic to humans.
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)	1 Carcinogenic to humans.
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)	1 Carcinogenic to humans.
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	1 Carcinogenic to humans.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	1 Carcinogenic to humans.

2,4'-Dichlorobiphenyl (CAS 34883-43-7)	1 Carcinogenic to humans.
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)	1 Carcinogenic to humans.
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)	1 Carcinogenic to humans.
2-Chlorobiphenyl (CAS 2051-60-7)	1 Carcinogenic to humans.
4-Chlorobiphenyl (CAS 2051-62-9)	1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Reasonably Anticipated to be a Human Carcinogen.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Reasonably Anticipated to be a Human Carcinogen.
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)	Reasonably Anticipated to be a Human Carcinogen.
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)	Reasonably Anticipated to be a Human Carcinogen.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Reasonably Anticipated to be a Human Carcinogen.
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)	Reasonably Anticipated to be a Human Carcinogen.
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)	Reasonably Anticipated to be a Human Carcinogen.
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	Reasonably Anticipated to be a Human Carcinogen.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Reasonably Anticipated to be a Human Carcinogen.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Reasonably Anticipated to be a Human Carcinogen.
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)	Reasonably Anticipated to be a Human Carcinogen.
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)	Reasonably Anticipated to be a Human Carcinogen.
2-Chlorobiphenyl (CAS 2051-60-7)	Reasonably Anticipated to be a Human Carcinogen.
4-Chlorobiphenyl (CAS 2051-62-9)	Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 0.0013 mg/l, 96 hours
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 0.03 mg/l, 96 hours
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0338 mg/l, 96 hours
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 0.16 mg/l, 96 hours
2-Chlorobiphenyl (CAS 2051-60-7)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.34 - 1.85 mg/l, 96 hours
4-Chlorobiphenyl (CAS 2051-62-9)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.305 - 1.7 mg/l, 96 hours

Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)	
2,2',3,4,4',5,5'-Heptachlorobiphenyl	4.11
2,2',3,4,4',5'-Hexachlorobiphenyl	4.11
2,2',5,5'-Tetrachlorobiphenyl	4.11
2,4,4'-Trichlorobiphenyl	4.11
2,4'-Dichlorobiphenyl	4.11
2-Chlorobiphenyl	4.11
4-Chlorobiphenyl	4.11
Acetone	-0.24

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN1090
UN proper shipping name Acetone, solution (Acetone RQ = 5004 LBS)
Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
Packing group II
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions IB2, T4, TP1
Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1090
UN proper shipping name Acetone solution (Acetone)
Transport hazard class(es)
Class 3
Subsidiary risk -
Packing group II
Environmental hazards No.

ERG Code	3H
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN1090
UN proper shipping name	ACETONE SOLUTION (Acetone)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

DOT

IATA; IMDG

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	0.00005 % Annual Export Notification required.
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	0.00005 % Annual Export Notification required.
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)	0.00005 % Annual Export Notification required.
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)	0.00005 % Annual Export Notification required.
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	0.00005 % Annual Export Notification required.
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)	0.00005 % Annual Export Notification required.
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)	0.00005 % Annual Export Notification required.
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	0.00005 % Annual Export Notification required.
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	0.00005 % Annual Export Notification required.
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	0.00005 % Annual Export Notification required.
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)	0.00005 % Annual Export Notification required.
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)	0.00005 % Annual Export Notification required.
2-Chlorobiphenyl (CAS 2051-60-7)	0.00005 % Annual Export Notification required.

4-Chlorobiphenyl (CAS 2051-62-9) 0.00005 % Annual Export Notification required.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US - New Jersey RTK - Substances: Listed substance

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)
2,4'-Dichlorobiphenyl (CAS 34883-43-7)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
2-Chlorobiphenyl (CAS 2051-60-7)
4-Chlorobiphenyl (CAS 2051-62-9)
Acetone (CAS 67-64-1)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)

2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)
2,4'-Dichlorobiphenyl (CAS 34883-43-7)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
2-Chlorobiphenyl (CAS 2051-60-7)
4-Chlorobiphenyl (CAS 2051-62-9)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
Acetone (CAS 67-64-1)

US. Massachusetts RTK - Substance List

2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
Acetone (CAS 67-64-1)

US. New Jersey Worker and Community Right-to-Know Act

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)
2,4'-Dichlorobiphenyl (CAS 34883-43-7)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
2-Chlorobiphenyl (CAS 2051-60-7)
4-Chlorobiphenyl (CAS 2051-62-9)

US. Pennsylvania RTK - Hazardous Substances

2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
Acetone (CAS 67-64-1)

US. Pennsylvania Worker and Community Right-to-Know Law

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)

2,4'-Dichlorobiphenyl (CAS 34883-43-7)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
2-Chlorobiphenyl (CAS 2051-60-7)
4-Chlorobiphenyl (CAS 2051-62-9)
Acetone (CAS 67-64-1)

US. Rhode Island RTK

2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)
4-Chlorobiphenyl (CAS 2051-62-9)
Acetone (CAS 67-64-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Listed: October 1, 1989
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)	Listed: October 1, 1989
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)	Listed: October 1, 1989
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Listed: October 1, 1989
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)	Listed: October 1, 1989
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)	Listed: October 1, 1989
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	Listed: October 1, 1989
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Listed: October 1, 1989
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Listed: October 1, 1989
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)	Listed: October 1, 1989
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)	Listed: October 1, 1989
2-Chlorobiphenyl (CAS 2051-60-7)	Listed: October 1, 1989
4-Chlorobiphenyl (CAS 2051-62-9)	Listed: October 1, 1989

US - California Proposition 65 - CRT: Listed date/Developmental toxin

2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3)	Listed: January 1, 1991
2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2)	Listed: January 1, 1991
2,2',3,4',5',6-Hexachlorobiphenyl (CAS 38380-04-0)	Listed: January 1, 1991
2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1)	Listed: January 1, 1991
2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3)	Listed: January 1, 1991
2,2',5-Trichlorobiphenyl (CAS 37680-65-2)	Listed: January 1, 1991
2,3,3',4',6-Pentachlorobiphenyl (CAS 38380-03-9)	Listed: January 1, 1991
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	Listed: January 1, 1991
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	Listed: January 1, 1991
2,4'-Dichlorobiphenyl (CAS 34883-43-7)	Listed: January 1, 1991
2.2'.3.5'-Tetrachlorobiphenyl (CAS 41464-39-5)	Listed: January 1, 1991
2.3'.4'.5-Tetrachlorobiphenyl (CAS 32598-11-1)	Listed: January 1, 1991
2-Chlorobiphenyl (CAS 2051-60-7)	Listed: January 1, 1991
4-Chlorobiphenyl (CAS 2051-62-9)	Listed: January 1, 1991

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 01-25-2017

Revision date 01-25-2017

Version # 02

NFPA ratings Health: 2
Flammability: 3
Instability: 0

Disclaimer The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

This product is furnished FOR LABORATORY USE ONLY.