SAFETY DATA SHEET

1. Identification

Product identifier PCB Mixture of 12 Analytes

Other means of identification

ItemM-PCBMIX12AK10Recommended useFor Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChem Service, Inc.Address660 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 hazardsFlammable liquidsCategory 2Health hazardsSkin corrosion/irritationCategory 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard

Category 1

Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

t, acute Category 1

Hazardous to the aquatic environment, long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin

irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic 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. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. 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. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Material name: PCB Mixture of 12 Analytes

SDS US

Disposal

Hazard(s) not otherwise classified (HNOC)

Supplemental information

Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Isooctane	2,2,4-Trimethylpentane	540-84-1	99.988
2,3,3',4,4',5,5'-Heptachlorobiphenyl		39635-31-9	0.001
2,3,3',4,4',5'-Hexachlorobipheny		69782-90-7	0.001
2,3,3',4,4',5-Hexachlorobiphenyl		38380-08-4	0.001
2,3,3',4,4'-Pentachlorobiphenyl		32598-14-4	0.001
2,3',4,4',5,5'-Hexachlorobipheny		52663-72-6	0.001
2',3,4,4',5-Pentachlorobiphenyl		65510-44-3	0.001
2,3',4,4',5-Pentachlorobiphenyl		31508-00-6	0.001
2,3,4,4',5-Pentachlorobiphenyl		74472-37-0	0.001
3,3',4,4',5,5'-Hexachlorobipheny		32774-16-6	0.001
3,3',4,4',5-Pentachlorobiphenyl		57465-28-8	0.001
3,3',4,4'-Tetrachlorobiphenyl		32598-13-3	0.001
3,4,4',5-Tetrachlorobiphenyl		70362-50-4	0.001

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. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.

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. 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

Water fog. Foam. 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 General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials. 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. Avoid breathing mist/vapors. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. 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. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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Components	Type	Value	
3,3',4,4'-Tetrachlorobipheny (CAS 32598-13-3)	PEL	1 mg/m3	
sooctane (CAS 540-84-1)	PEL	2350 mg/m3	
		500 ppm	
JS. ACGIH Threshold Limit Values			
Components	Туре	Value	
3,3',4,4'-Tetrachlorobipheny (CAS 32598-13-3)	TWA	1 mg/m3	
JS. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
2,3,3',4,4',5,5'-Heptachlorob phenyl (CAS 39635-31-9)	TWA	0.001 mg/m3	
2,3,3',4,4',5'-Hexachlorobip nenyl (CAS 69782-90-7)	TWA	0.001 mg/m3	
2,3,3',4,4',5-Hexachlorobiph enyl (CAS 38380-08-4)	TWA	0.001 mg/m3	
2,3,3',4,4'-Pentachlorobiphe nyl (CAS 32598-14-4)	TWA	0.001 mg/m3	
2,3',4,4',5,5'-Hexachlorobip nenyl (CAS 52663-72-6)	TWA	0.001 mg/m3	
2,3,4,4',5-Pentachlorobiphe nyl (CAS 74472-37-0)	TWA	0.001 mg/m3	
2,3',4,4',5-Pentachlorobiphe nyl (CAS 31508-00-6)	TWA	0.001 mg/m3	
2',3,4,4',5-Pentachlorobiphe nyl (CAS 65510-44-3)	TWA	0.001 mg/m3	
3,3',4,4',5,5'-Hexachlorobip nenyl (CAS 32774-16-6)	TWA	0.001 mg/m3	
3,3',4,4',5-Pentachlorobiphe nyl (CAS 57465-28-8)	TWA	0.001 mg/m3	

Biological limit values

3,4,4',5-Tetrachlorobiphenyl

Isooctane (CAS 540-84-1)

(CAS 70362-50-4)

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3) Can be absorbed through the skin.

TWA

Ceiling

TWA

US - Tennessee OELs: Skin designation

3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3) Danger of cutaneous absorption

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

3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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 and safety shower.

0.001 mg/m3

1800 mg/m3

385 ppm

350 mg/m3 75 ppm

Individual protection measures, such as personal protective equipment

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

Skin protection

Wear appropriate chemical resistant gloves. Hand protection Wear appropriate chemical resistant clothing. Other

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. Liquid. **Form**

Color Not available. Not available. Odor **Odor threshold** Not available. Not available.

Melting point/freezing point Initial boiling point and boiling

-161.41 °F (-107.45 °C) estimated 210.63 °F (99.24 °C) estimated

range

40.1 °F (4.5 °C) estimated Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

1.1 % estimated Explosive limit - lower (%) Explosive limit - upper (%) 6 % estimated

Vapor pressure 65.73 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature 784.4 °F (418 °C) estimated

Decomposition temperature Not available. Not available. **Viscosity**

Other information

Density 0.69868 g/cm3 estimated

Explosive properties Not explosive.

Flammability class Flammable IB estimated

Oxidizing properties Not oxidizing. 0.7 estimated Specific gravity

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 Hazardous polymerization does not occur.

reactions Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache, Nausea, vomiting, Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness.

Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components Species Test Results

3,3',4,4',5,5'-Hexachlorobiphenyl (CAS 32774-16-6)

<u>Acute</u>

Oral

LD50 Mouse 19 mg/kg

3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3)

Acute Dermal

LD50 Rabbit 8.65 g/kg

Oral

LD50 Guinea pig 1 mg/kg

Isooctane (CAS 540-84-1)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

Inhalation

Vapor

LC50 Rat > 33.52 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

3,3',4,4',5-Pentachlorobiphenyl (CAS 57465-28-8) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

2,3,3',4,4',5,5'-Heptachlorobiphenyl (CAS 39635-31-9)	Reasonably Anticipated to be a Human Carcinogen.
2,3,3',4,4',5'-Hexachlorobiphenyl (CAS 69782-90-7)	Reasonably Anticipated to be a Human Carcinogen.
2,3,3',4,4',5-Hexachlorobiphenyl (CAS 38380-08-4)	Reasonably Anticipated to be a Human Carcinogen.
2,3,3',4,4'-Pentachlorobiphenyl (CAS 32598-14-4)	Reasonably Anticipated to be a Human Carcinogen.
2,3',4,4',5,5'-Hexachlorobiphenyl (CAS 52663-72-6)	Reasonably Anticipated to be a Human Carcinogen.
2,3,4,4',5-Pentachlorobiphenyl (CAS 74472-37-0)	Reasonably Anticipated to be a Human Carcinogen.

Material name: PCB Mixture of 12 Analytes

SDS US

2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)
2',3,4,4',5-Pentachlorobiphenyl (CAS 65510-44-3)
3,3',4,4',5,5'-Hexachlorobiphenyl (CAS 32774-16-6)
3,3',4,4',5-Pentachlorobiphenyl (CAS 32598-13-3)
3,4,4'-Tetrachlorobiphenyl (CAS 70362-50-4)
Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components Species Test Results

3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3)

Aquatic Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 0.002 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

3,3',4,4'-Tetrachlorobiphenyl 6.72 Isooctane 5.18

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 instructionsDispose of this material and its container to hazardous or special waste collection point. Incinerate

the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. 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 D001: Waste Flammable material with a flash point <140 F

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.

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14. Transport information

DOT

UN number UN1262

UN proper shipping name Transport hazard class(es) Octanes, solution (Isooctane RQ = 1000 LBS), MARINE POLLUTANT

Class 3
Subsidiary risk Label(s) 3
Packing group II

Material name: PCB Mixture of 12 Analytes

nalutaa

Environmental hazards

Yes Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB2, T4, TP1 Special provisions

Packaging exceptions 150 202 Packaging non bulk 242 Packaging bulk

IATA

UN1262 **UN** number

Octanes solution (Isooctane) UN proper shipping name

Transport hazard class(es)

3 **Class** Subsidiary risk Packing group П **Environmental hazards** Yes **ERG Code** 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

IMDG

UN1262 **UN** number

UN proper shipping name Transport hazard class(es) OCTANES SOLUTION (Isooctane), MARINE POLLUTANT

Class 3 Subsidiary risk Packing group Ш

Environmental hazards

Yes Marine pollutant F-E, S-E **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

DOT



IATA; IMDG



Marine pollutant



General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated

"active".

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

2,3,3',4,4',5,5'-Heptachlorobiphenyl 0.00005 % Annual Export Notification required. (CAS 39635-31-9) 2,3,3',4,4',5'-Hexachlorobiphenyl (CAS 69782-90-7) 0.00005 % Annual Export Notification required. 2,3,3',4,4',5-Hexachlorobiphenyl (CAS 38380-08-4) 0.00005 % Annual Export Notification required. 2,3,3',4,4'-Pentachlorobiphenyl (CAS 32598-14-4) 0.00005 % Annual Export Notification required. 2,3',4,4',5,5'-Hexachlorobiphenyl (CAS 52663-72-6) 0.00005 % Annual Export Notification required. 2,3,4,4',5-Pentachlorobiphenyl (CAS 74472-37-0) 0.00005 % Annual Export Notification required. 2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6) 0.00005 % Annual Export Notification required. 2',3,4,4',5-Pentachlorobiphenyl (CAS 65510-44-3) 0.00005 % Annual Export Notification required. 3,3',4,4',5,5'-Hexachlorobiphenyl (CAS 32774-16-6) 0.00005 % Annual Export Notification required. 3,3',4,4',5-Pentachlorobiphenyl (CAS 57465-28-8) 0.00005 % Annual Export Notification required. 3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3) 0.00005 % Annual Export Notification required. 3,4,4',5-Tetrachlorobiphenyl (CAS 70362-50-4) 0.00005 % Annual Export Notification required.

CERCLA Hazardous Substance List (40 CFR 302.4)

Isooctane (CAS 540-84-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation categories

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Isooctane (CAS 540-84-1)

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

Material name: PCB Mixture of 12 Analytes M-PCBMIX12AK10 Version #: 02 Revision date: 07-15-2022 Issue date: 07-15-2022

US state regulations

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

2,3,3',4,4',5,5'-Heptachlorobiphenyl (CAS 39635-31-9) 2,3,3',4,4',5'-Hexachlorobiphenyl (CAS 69782-90-7) 2,3,3',4,4',5-Hexachlorobiphenyl (CAS 38380-08-4) 2,3,3',4,4'-Pentachlorobiphenyl (CAS 32598-14-4) 2,3',4,4',5,5'-Hexachlorobiphenyl (CAS 52663-72-6) 2,3,4,4',5-Pentachlorobiphenyl (CAS 74472-37-0) 2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6) 2',3,4,4',5-Pentachlorobiphenyl (CAS 65510-44-3) 3,3',4,4',5,5'-Hexachlorobiphenyl (CAS 32774-16-6) 3,3',4,4',5-Pentachlorobiphenyl (CAS 57465-28-8) 3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3) 3,4,4',5-Tetrachlorobiphenyl (CAS 70362-50-4) Isooctane (CAS 540-84-1)

California Proposition 65



WARNING: This product can expose you to chemicals including 2,3,3',4,4'-Pentachlorobiphenyl, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

2,3,3',4,4',5'-Hexachlorobiphenyl (CAS 69782-90-7)	Listed: October 1, 1989
2,3,3',4,4',5-Hexachlorobiphenyl (CAS 38380-08-4)	Listed: October 1, 1989
2,3,3',4,4'-Pentachlorobiphenyl (CAS 32598-14-4)	Listed: October 1, 1989
2,3',4,4',5,5'-Hexachlorobiphenyl (CAS 52663-72-6)	Listed: October 1, 1989
2,3,4,4',5-Pentachlorobiphenyl (CAS 74472-37-0)	Listed: October 1, 1989
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3,3',4,4',5-Pentachlorobiphenyl (CAS 57465-28-8)	Listed: October 1, 1989
3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3)	Listed: October 1, 1989
3,4,4',5-Tetrachlorobiphenyl (CAS 70362-50-4)	Listed: October 1, 1989

California Proposition 65 - CRT: Listed date/Developmental toxin

2,3,3',4,4',5,5'-Heptachlorobiphenyl	Listed: January 1, 1991
(CAS 39635-31-9)	
2,3,3',4,4',5'-Hexachlorobiphenyl (CAS 69782-90-7)	Listed: January 1, 1991
2,3,3',4,4',5-Hexachlorobiphenyl (CAS 38380-08-4)	Listed: January 1, 1991
2,3,3',4,4'-Pentachlorobiphenyl (CAS 32598-14-4)	Listed: January 1, 1991
2,3',4,4',5,5'-Hexachlorobiphenyl (CAS 52663-72-6)	Listed: January 1, 1991
2,3,4,4',5-Pentachlorobiphenyl (CAS 74472-37-0)	Listed: January 1, 1991
2,3',4,4',5-Pentachlorobiphenyl (CAS 31508-00-6)	Listed: January 1, 1991
2',3,4,4',5-Pentachlorobiphenyl (CAS 65510-44-3)	Listed: January 1, 1991
3,3',4,4',5,5'-Hexachlorobiphenyl (CAS 32774-16-6)	Listed: January 1, 1991
3,3',4,4',5-Pentachlorobiphenyl (CAS 57465-28-8)	Listed: January 1, 1991
3,3',4,4'-Tetrachlorobiphenyl (CAS 32598-13-3)	Listed: January 1, 1991
3,4,4',5-Tetrachlorobiphenyl (CAS 70362-50-4)	Listed: January 1, 1991

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region Inventory name On inventory (yes/no)*

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

Issue date 07-15-2022 07-15-2022 **Revision date**

Version # 02

Health: 2 NFPA ratings

Flammability: 3 Instability: 0

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^{*}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).