

Motor Vehicle Coatings: PCBTF Workshop

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Air Pollution Control District
San Luis Obispo County

What is PCBTF?

- Parachlorobenzotrifluoride (CAS 98-56-6)
- Also known as “Oxsol”
- Federally exempt as a VOC
- Common ingredient in low VOC coatings
- Carcinogenic (causes cancer)



Why PCBTF is coming up now



- Cancer Risk: August 2020
- Amount used must be reported for automotive coating facilities for 2026 annual emissions inventory and ATHS
- Once quantified, can cause several facilities to be out of compliance with ATHS thresholds for cancer
- Included in most coatings, to phase out will take reformulation

New Reporting Requirements and Challenges

- Need to know **how much PCBTF** is emitted by the facility
- Estimating amounts used may be challenging
- Accuracy concerns with existing estimates
- Not a VOC, so not already included in VOC report
- SDS values vary
- Other compounds to report



Ongoing Efforts in CA



- South Coast AQMD Rule 1151 Update in November 2024
- Other Districts using their toxics rules for new and modified sources
- SLOAPCD considering similar action as SCAQMD, in early development, some challenges

Impacts to Permit-Holders



May affect toxics fees, as they are based on the screening results

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\$35/yr Industrywide

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\$300/yr Cap: Small Business

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More involved emissions inventory submittal and data verification process

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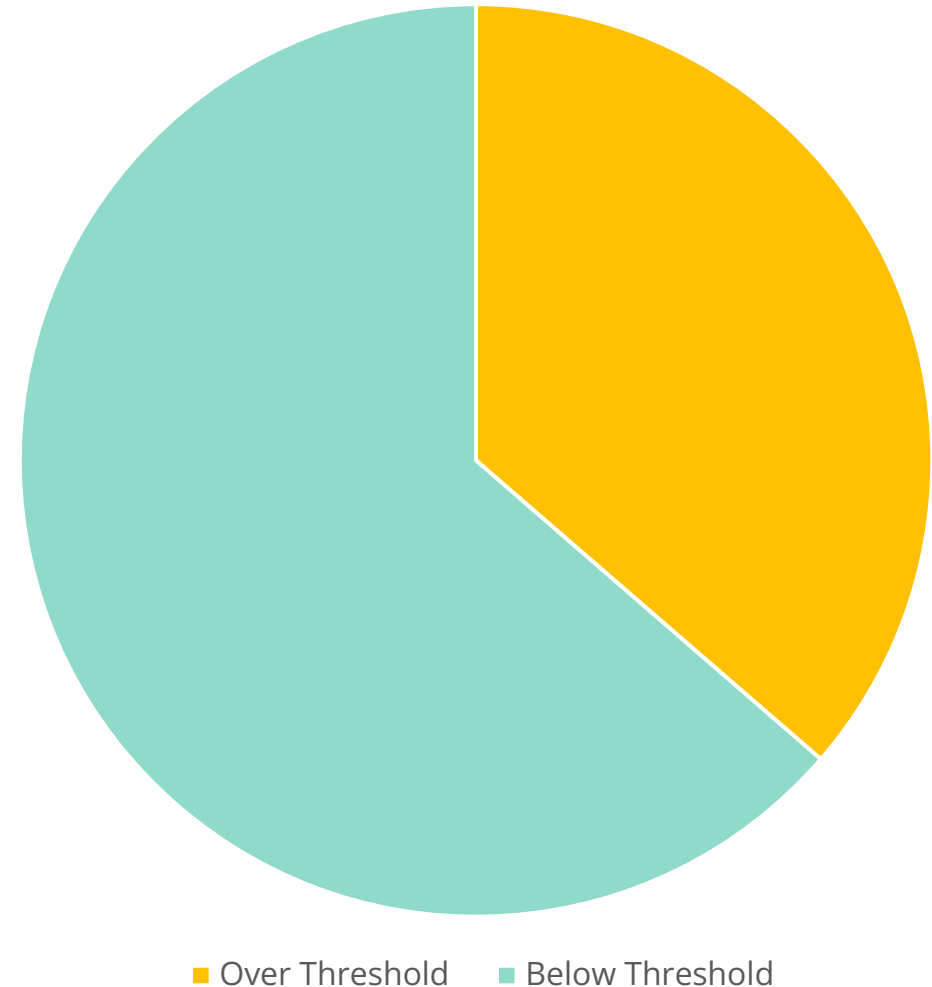


SCAQMD efforts may trickle down to other Districts, other coatings may become available but may not comply with VOC limits

Impacts to Permit-Holders

- Using sales weighted averages and 2024 data, 16/44 autobody shops are above the cancer thresholds
- Several assumptions required to get these estimates

Cancer Risk Screening



What Can Permit-Holders Do?



Work with paint/solvent suppliers to get a compound-based breakdown of the coatings, including PCBTF totals, similar to VOC reports provided

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If only using purchase records, consider implementing digital scale that tracks actual mixed volumes of coatings

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Consider and discuss use of alternative compliant coatings (if possible) with District

Safety Data Sheet (SDS) Exercise

SDS Exercise: Does this contain PCBTF?

===== SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS =====

REPORTABLE COMPONENTS	CAS NUMBER	WEIGHT
		PERCENT
PARACHLOROBENZOTRIFLUORIDE	98-56-6	21.0
ACETONE	67-64-1	17.5
NORMAL BUTYL ACETATE	123-86-4	7.0
* XYLENE	1330-20-7	4.10

* Indicates this product contains EPCRA section 313 chemical(s) subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This information must be included in all MSDS's that are copied and distributed for this material. WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

WARNING: This product contains flammable solvent(s).

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3. Composition/information on ingredients

mixture of solvents

Components

CAS-No.	Chemical name	Concentration
98-56-6	4-chlorobenzotrifluoride	92 - 100%

Any concentration shown as a range is due to batch variation.

Non-regulated ingredients 0.0 - 0.1%

OSHA Hazardous: Yes

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Mixture of synthetic resins and solvents as well as water

Components

CAS-No.	Chemical Name	Concentration
67-64-1	Acetone	4 - 15%
111-76-2	Ethylene glycol monobutyl ether	1%

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Non-regulated ingredients 80 - 90%

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Section 3. Composition and ingredient information

Substance/mixture : Mixture
Other means of identification : Not available.

CAS number/other identifiers

Not available.

Ingredient name	% (w/w)	Identifiers
p-Chlorobenzotrifluoride	≥60 - ≤75	CAS: 98-56-6 EC: 202-681-1
Methyl n-Amyl Ketone	≥10 - ≤30	CAS: 110-43-0 EC: 203-767-1
Acetone	≥10 - <20	CAS: 67-64-1 EC: 200-662-2
Ethyl 3-Ethoxypropionate	≤5	CAS: 763-69-9 EC: 212-112-9

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What to look for

- parachlorobenzotrifluoride
- 4-chlorobenzotrifluoride
- p-chlorobenzotrifluoride
- pCBtF
- 1-Chloro-4-(trifluoromethyl)benzene
- Oxsol

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- 4-chlorobenzotri**fluoride**
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- pCBt**F**
- 1-Chloro-4-(tri**fluoro**methyl)benzene
- Oxsol

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- parachlorobenzotrifluoride

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- p-CF₃

- pC

- 1-Chloro-4-(trifluoromethyl)benzene

- Oxsol

CAS 98-56-6

Questions?

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