

	NC	AZ*	CA	CT	FL	GA	ID	KS*	MD	MA	ND	NJ	NY	NV*	OK	PA	SC	TX	VA					
Whole State?	Yes - Proposed	Yes	Yes	Yes	Pineellas County	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Philadelphia - County	65 Counties	Yes	Yes	Yes				
Concentration	5	36, 9.5, 0.026	3,900, 800	6,000, 1,200	200, 48, 0.006	800, 5	0.095	47.6	38.83	5.28	2.64	3,900	3,900	3,900	200	480, 120	100	190	19	3,883	19,415			
Units	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3	µg/m3		
Avg Time	annual/24 hr?	1 hr	24 hr	1 hr	8 hr	24 hr	annual	15 minute	annual	1 hr	8 hr	annual	1 hr	annual	24 hr	PPB	24 hr	24 hr	24 hr	8 hr	Trigger			
Basis for this Value?	-	-	-	~1 ppm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 ppm	5 ppm		
Modification Factors?				Reduction value of 200 for Table 1 compounds, 100 for Table 2 compounds, and 50 for Table 3 (MeBr is in Table 3)			1/20 safety factor		1/100th	Divided by 4.2 occup exposure to continuous, 1.75 adult to child, 10 to account for carcinogenicity based on weight of evidence for carcinogenicity, mutagenicity and structural activity relationship analysis.		o note use for "long-term (maximum annual average) ambient air concentrations"; use annual averaging time w/o any apparent modification					NA		NA					
Decision Points for Factors?				CTDEEP only has a state AAQS for dioxin/furan. All other HAPs are Hazardous Limiting Values. CT accepts modeling in lieu of site monitoring in their rule.			1/20 safety factor applied to all occupational health factors for noncarcinogens		regulations, COMAR 26.11.16.03.A(1)a, http://www.dsd.state.md.us/comar/comarhit ml/26.11.16.03.hr m			o non-carcinogens, short-term risks - Hazard Quotients/short-term = Cst/RI/Cst where: Cst = Short-term average ambient air concentration from AERMOD (µg/m3), of the unique air toxic RI/Cst = Short-term reference concentration (µg/m3), of the unique air toxic o short term RIC is compared with the maximum average ambient air concentration averaged over the period given in the "RIC Averaging Time" column in the "Toxicity Values for Inhalation Exposure" document o Air Emissions RA_NJDEP.2018, pg 13 o averaging time, non-C.Ac either annual, or specific # hrs, depending on the basis of the RIC (pg 23, Air Emissions RA_NJDEP.2018) • "short-term RIC"						o pg 6 – calculated 1-yr [air] compared to Short-Term Guideline Concs (SGC); o long-term exposure based upon the months of exposure which occur during pregnancy or for periods from one year to a lifetime o calculated maximum annual HTAC (High Toxicity Air Contaminants) concentration from all NESHAP (National Emission Standards for Hazardous Air Pollutants) process emission sources at the affected facility should be compared to the Department's AGC and SGC o HTAC list in 212-2.2 Table 2				NA		NA
Averaging Time Decision Basis?				Based on regulation, 8-hr and 30 minutes			Non carcinogens are evaluated on a 24 hour basis and carcinogens on an annual basis. (AALs for carcinogens are derived primarily from IRIS.)		Source	noncancer effects	cancer effects										NA	NA		
Date for Establishing AAL?				1993	1993	1986	1986	1995	1983	?	1990	1990	2018	2014						NA	NA	NA		
Date for Last Review for AAL?				1999	2000	1986	1986	NA	1990	2017	2010	2010	2018	2014						NA	NA	NA		
Decision Point Process for Updating Toxic Values?				o Jan 2010 DPR memo stated would develop regulatory language to revise current MeBr regulations to meet new regulatory target levels: o bystander exposure – regulatory target level = 5 ppb (19 µg/m3) o occupational exposure – 13 ppb (50.5 µg/m3)	Unknown history because toxicologist position no longer staffed. The decision would come from DEEP and DPH Panel upon request by the Commissioner.	They use a Guideline to set limits not an actual Rule. The guidelines fall under the authority of a more general rule.	The Idaho TAP rule was controversial when implemented and there is a concern that if an attempt is made to update the rule, it could be deleted entirely.	Updates from ACGIH, or if EPA establishes carcinogenic values.	Program need and availability of new toxicity information			In August 2018 tox values list, they used the IRIS 0.005 µg/m3 for non-short-term exposures.									NA	State Law Adoption		
Provided Documentation, References, Calculations:		*Arizona did have three levels but has more recently gone to 500 µg/m3 per hour for AAL.	o DPR August 2017 (Cal air monitoring results, 2010-2016) o 1-yr SL = 1 ppb (3.88 µg/m3) based on nose tissue damage; no regulatory target level o 4-wk regulatory target level = 5 ppb (19 µg/m3), based on brain/nerve damage o 1-day regulatory target level = 210 ppb (810 µg/m3), based on brain/nerve damage • MADDI (max allowable dose level), reference: MeBr_MADDI_structural.fumigant_ochha.2004 o OEHHA o Prop 65 – reprod toxic (developmental)	*Connecticut did have one level (400 µg/m3 per 8hr) indicated in the clearinghouse but actually has two according to the state contact		See "How To" Document	Husain Waheed (410-537-3238) or Nolan Penny of Permits Program	See response to questions and attached documents.				TITLE 6. DEPARTMENT OF ENVIRONMENTAL CONSERVATION CHAPTER III. AIR RESOURCES SUBCHAPTER B. AIR QUALITY CLASSIFICATIONS AND STANDARDS PART 257. AIR QUALITY STANDARDS SUBPART 257-1. AIR QUALITY STANDARDS – GENERAL 6 CRR-NY 257-1.4 6 CRR-NY 257-1.4 257-1.4 Compliance.				They have one MeBr fumigation site for pasta ingredients at a Macaroni plant in Dauphin County. In 1995 set risk assessment protocol for emitting facilities.	NA			NA	*In the past Virginia did have one level (0.019 µg/m3) indicated in the clearinghouse but actually replaced by statute with a secondary triggering value according to the state contact			
Sent email?	Attempt Fail	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	mark_wert@mass.gov	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Called?	Tomothy Franquist	Provided by Sandy	Gabe Ruiz	Rick Pirolli	AirQuality@pinellascounty.org	Elisabeth Munsey	Carl Brown	Doug Watson Randy Mosier	Mark Wert	919-292-5598	Provided by Sandy	Provided by Sandy	Ryan Clark Sig Jannarajs	Toni Payne 405-702-4168	Cheryl Bradle 405-702-4175	Craig Evans	Hetal Patel			Pat Corbett 804-698-4016				
Contact	AQPlanning 602-771-4106	https://oehha.ca.gov/chemicals/methyl-bromide				Michael Odon-404-363-7096		Douglas.Watson@ks.gov (785) 296-0910	Sandra (Sandy) Baird				Sig : 687-9392 Ryan : 687-9536	.deq.state.ok.us						Michael Hone 512-239-1793 Sabine Lange 512-239-3108				
											Uses the TLV approach, and when values are not available, they use the most health protective values											*He is interested in a followup and discussion to consider rule changes for Virginia possibly		