# RULES

OF

# TENNESSEE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

# CHAPTER 0800-01-01 OCCUPATIONAL SAFETY AND HEALTH STANDARDS FOR GENERAL INDUSTRY

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#### 0800-01-01-.01 PURPOSE AND SCOPE.

- (1) The Commissioner of Labor and Workforce Development has the responsibility to develop and promulgate regulations which adopt occupational safety and health standards. The Commissioner may adopt the federal standards relating to the same issue.
- (2) This chapter carries out the directive to the Commissioner of Labor and Workforce Development under T.C.A. §§ 50-3-201 and 50-3-202. It adopts occupational safety and health standards which are the federal standards relating to the same issue, and state standards required for effective enforcement of the Act that are of a general or a specific nature in providing occupational safety and health protection.

Authority: T.C.A. §§ 4-3-1411, 50-3-201, and 50-3-202. Administrative History: Original rule certified June 10, 1974. Amendment filed June 12, 1974; effective July 12, 1974. Amendment filed January 10, 1975; effective February 10, 1975. Amendment filed June 18, 1975; effective July 18, 1975. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repeal and new rule filed March 31, 1983; effective June 15, 1983. Amendment filed November 25, 1983; effective February 13, 1984. Repeal and new rule filed January 11, 2002; effective May 31, 2002.

**0800-01-01-.02 DEFINITIONS.** As used in this and subsequent chapters, unless the context clearly otherwise requires:

- (1) "Act" means Chapter 561 of the Public Acts of 1972, known as the Occupational Safety and Health Act of 1972 pursuant to section 1 thereof, as amended (T.C.A. Title 50, Chapter 3, §§ 50-3-101 through 50-3-919.)
- "Administrator" means the chief administrative officer of the Division of Occupational Safety and Health of the Tennessee Department of Labor and Workforce Development, and includes any person appointed, designated or deputized to perform the duties or to exercise the powers assigned to the Administrator of the Division of Occupational Safety and Health under the Act.
- (3) "Commissioner of Labor and Workforce Development" or "Commissioner" means the chief executive officer of the Tennessee Department of Labor and Workforce Development. For the purposes of this chapter, it includes any person appointed, designated, or deputized to perform the duties or to exercise the powers assigned to the Commissioner of Labor and Workforce Development under the Act.
- (4) "Employee" means any person performing services for another under a contract of hire, including minors, whether lawfully or unlawfully employed, persons in executive positions, and shall include state, county, metropolitan and municipal government employees.

- (5) "Employer" means a person engaged in a business who has one or more employees and includes state, county, metropolitan and municipal governments.
- (6) "Federal standard" means a standard adopted a by rule promulgated under section 6 of the Occupational Safety and Health Act of 1970, Public Law 91-596 (Title 29, United States Code § 655).
- (7) "OSHA" means the Occupational Safety and Health Act of 1970, as amended Public Law 91-596 (Title 29, United States Code § 650 et seq., or the Occupational Safety and Health Administration, United States Department of Labor, depending upon the context in which the acronym is used. As used in federal standards adopted by this chapter, it shall mean the same as federal standard as defined in paragraph (6) of this rule or one of the foregoing, depending upon context. It shall also, for the purposes of this chapter, be considered synonymous with the acronym "TOSHA" as defined in paragraph (10) of this rule.
- (8) "Person" means one or more individuals, partnerships, associations, corporations, business trusts, legal representatives or any organized group of persons.
- (9) "Standard" means an occupational safety and health standard promulgated by the Commissioner of Labor and Workforce Development which requires conditions or the adoption or the use of one or more practices, means, methods, operations or processes reasonably necessary or appropriate to provide safe and healthful employment and places of employment.
- (10) "TOSHA" means the Division of Occupational Safety and Health, Tennessee Department of Labor and Workforce Development, which is the agency responsible for the administration and enforcement of the Act and rules and regulations promulgated by the Commissioner of Labor and Workforce Development pursuant thereto.

Authority: T.C.A. §§ 4-3-1411, 50-3-103, and 50-3-201. Administrative History: Original rule filed January 10, 1975; effective February 9, 1975. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repeal and new rule filed March 31, 1983; effective June 15, 1983. Amendment filed November 25, 1983; effective February 13, 1984. Amendment filed March 27, 2001; effective July 30, 2001. Repeal and new rule filed January 11, 2002; effective May 31, 2002.

#### 0800-01-01-.03 PETITIONS FOR THE ISSUANCE, AMENDMENT, OR REPEAL OF A STANDARD.

- (1) Any interested person may petition in writing the Commissioner of Labor and Workforce Development to promulgate, modify or revoke a standard. The petition should set forth the terms or the substance of the rule desired, the effects thereof if promulgated, and the reasons therefor.
- (2) Within a reasonable time after the receipt of a submission pursuant to paragraph (1) of this rule, the Commissioner shall inform the person submitting the petition in writing of his intended action. If the petition is denied, the Commissioner shall set forth the reasons therefor.

**Authority:** T.C.A. §§ 4-3-1411, 50-3-105, and 50-3-201. **Administrative History:** Original rule filed June 18, 1975; effective July 18, 1975. Amendment filed January 26, 1976; effective April 15, 1976. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repealed and new rule filed March 31, 1983; effective June 15, 1983. Amendment filed November 25, 1983; effective February 13, 1984. Repeal and new rule filed January 11, 2002; effective May 31, 2002.

### 0800-01-01-.04 AMENDMENTS TO THIS CHAPTER.

(1) The Commissioner of Labor and Workforce Development may promulgate, modify, or revoke any occupational safety and health standard in this chapter in the manner provided in T.C.A. § 4-5-101 et seq., the Uniform Administrative Procedures Act.

Authority: T.C.A. §§ 4-3-1411 and 50-3-201. Administrative History: Original rule filed June 18, 1975; effective July 18, 1975. Amendment filed January 26, 1976; effective April 15, 1976. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repeal and new rule filed March 31, 1983; effective June 15, 1983. Amendment filed November 25, 1983; effective February 13, 1984. Repeal and new rule filed January 11, 2002; effective May 31, 2002.

### 0800-01-01-.05 APPLICABILITY OF STANDARDS.

- (1) Except as provided in paragraph (2) of this rule, the standards contained in this chapter shall apply with respect to employments performed in all workplaces in the State of Tennessee.
- (2) None of the standards in this chapter shall apply to working conditions of employees exempted from coverage under the Act. These are:
  - (a) Employees of the federal government, including its departments, agencies and instrumentalities;
  - (b) Employees whose safety and health are subject to protection under the Atomic Energy Act of 1954, as amended (42 USC §§ 2011-2296);
  - (c) Employees whose safety and health are subject to protection under the federal Coal Mine Health and Safety Act of 1969 (30 USC § 801 et seq.), the federal Metal and Nonmetallic Mine Safety Act (30 USC § 725) [repealed], or Tennessee Code Annotated, Title 59;
  - (d) Railroad employees whose safety and health are subject to protection under the federal Safety Appliances Act (45 USC § 1 et seq.) or the federal Railroad Safety Act of 1970 (45 USC §§ 431-441);
  - (e) Domestic workers: and
  - (f) RESERVED
  - (g) Any employee engaged in agriculture who is employed on a farm, each of the employees of which is related to the employer as a spouse, child, parent, grandparent or grandchild.
- (3) Applicability of specific vs. general standards.
  - (a) If a particular standard is specifically applicable to a condition, practice, means, method, operation or process, it shall prevail over any different general standard which might otherwise be applicable to the same condition, practice, means, method, operation or process. For example, the standard 29 CFR 1910.217 as adopted by rules of this chapter prescribes guarding for mechanical power presses. Such a standard shall apply, and shall not be deemed modified or superseded by any different general standard whose provisions might otherwise be applicable, such as the standard 29 CFR 1910.212 as adopted by rules of this chapter which prescribes general requirements for all machines.

- (b) On the other hand, any standard shall apply according to its terms to any employment and place of employment in any industry, as standards 29 CFR 1910.261 through 29 CFR 1910.272 (Appendix C) as adopted by rules of this chapter or 29 CFR 1926 as adopted by rules in Chapter 0800-01-06. For example, the general standard regarding noise exposure, 29 CFR 1910.95 as adopted by rules of this chapter, applies to employments and places of employment in pulp, paper and paperboard mills covered by the standard 29 CFR 1910.261 as adopted by rules of this chapter.
- (4) In the event a standard protects on its face a class of persons larger than employees, the standard shall be applicable under the Act only to those employees and their employment and places of employment.
- (5) An employer who is in compliance with any standard in this chapter shall be deemed to be in compliance with the requirement of T.C.A. § 50-3-105(1), but only to the extent of the condition, practice, means, method, operation or process covered by the standard.

Authority: T.C.A. §§ 4-3-1411, 50-3-105, and 50-3-201. Administrative History: Original rule filed September 14, 1976; effective October 14, 1976. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repeal and new rule filed March 31, 1983; effective June 15, 1983. Amendment filed November 25, 1983; effective February 13, 1984. Repeal and new rule filed January 11, 2002; effective May 31, 2002. Amendment filed April 14, 2016; effective July 13, 2016.

#### 0800-01-01-.06 ADOPTION AND CITATION OF FEDERAL STANDARDS.

- (1) The federal occupational safety and health standards adopted by the Commissioner of Labor and Workforce Development in this chapter shall be cited using the designation in Title 29, Code of Federal Regulations, Part 1910, i.e., 29 CFR 1910.38, 29 CFR 1910.137(a)(1)(ii)(E), etc. Where adoption to the current Title 29, Code of Federal Regulations, Part 1910, is an exception, the citation shall be to 29 CFR 1910 as published in the Federal Register or to the appropriate rule in this chapter. See Rule 0800-01-01-.07 for exceptions.
- (2) The Commissioner of Labor and Workforce Development adopts the federal occupational safety and health standards codified in Title 29, Code of Federal Regulations, Part 1910, as of January 1, 2018 except as provided in Rule 0800-01-01-.07 of this chapter.

Authority: T.C.A. §§ 4-3-1411 and 50-3-201. Administrative History: Original rule filed January 15, 1977; effective February 13, 1977. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repeal and new rule filed March 31, 1983; effective June 15, 1983. Amendment filed August 13, 1999; effective December 29, 1999. Amendment filed November 30, 2000; effective March 30, 2001. Amendment filed March 27, 2001; effective July 30, 2001. Repeal and new rule filed January 11, 2002; effective May 31, 2002. Amendment filed September 13, 2002; effective January 28, 2003. Amendment filed November 25, 2002; effective March 28, 2003. Amendment filed May 14, 2003; effective September 26, 2003. Amendment filed November 13, 2003; effective March 29, 2004. Amendment filed April 21, 2004; effective August 27, 2004. Amendment filed September 7, 2004; effective January 28, 2005. Amendment filed February 16, 2005; effective June 28, 2005. Amendment filed September 12, 2005; effective January 27, 2006. Amendment filed April 26, 2006; effective August 28, 2006. Amendment filed November 16, 2006; effective date March 30, 2007. Amendment filed April 5, 2007; effective August 28, 2007. Amendment filed October 17, 2007; effective February 28, 2008. Amendment filed February 21, 2008; effective June 27, 2008. Amendment filed September 22, 2008; effective January 28, 2009. Amendment filed March 9, 2009; effective July 29, 2009. Amendment filed August 19, 2009; effective January 29, 2010. Amendment filed February 12, 2010; effective July 29, 2010. Amendment filed October 1, 2010; effective March 31, 2011. Amendment filed April 4, 2011; effective September 28, 2011. Amendment filed September 23, 2011; effective February 28, 2012. Amendment filed April 25, 2012; effective September 28, 2012. Amendment filed April 3, 2013; effective September 28, 2013. Amendment filed October 10, 2013; effective March 31, 2014. Amendment filed April 2, 2014; effective September 28,

2014. Amendment filed September 19, 2014; effective December 18, 2014. Amendment filed May 1, 2015; effective July 30, 2015. Amendment filed September 1, 2015; effective November 30, 2015. Amendment filed April 14, 2016; effective July 13, 2016. Amendments filed October 31, 2016; effective January 29, 2017. Amendment filed January 19, 2017; effective April 19, 2017. Amendment filed April 24, 2017; effective July 23, 2017. Amendment filed November 6, 2017; effective February 4, 2018.

#### 0800-01-01-.07 EXCEPTIONS TO ADOPTION OF FEDERAL STANDARDS IN 29 CFR PART 1910.

- (1) The Commissioner of Labor and Workforce Development does not adopt the following federal occupational safety and health standards:
  - (a) 29 CFR 1910.1 Purpose and scope.
  - (b) 29 CFR 1910.2 Definitions.
  - (c) 29 CFR 1910.3 Petitions for the issuance, amendment, or repeal of a standard.
  - (d) 29 CFR 1910.4 Amendments to this part.
  - (e) 29 CFR 1910.15 Shipyard employment.
  - (f) 29 CFR 1910.16 Longshoring and marine terminals.
- (2) In lieu of the current federal occupational safety and health standards codified in Title 29, Code of Federal Regulations, Part 1910, Rule 0800-01-01-.06 of this chapter, or the absence thereof because of repeal or revocation, the Commissioner of Labor and Workforce Development adopts the standards limiting exposure to air contaminants as contained in subparagraph (b) of this rule. The information contained therein was compiled and adopted from the following federal occupational safety and health standards as published in the Federal Register in the volume and on the page(s) indicated.
  - (a) 29 CFR 1910.1000 at 54 FR 2920-2983 and the following corrections and amendments thereto:
    - 1. 29 CFR 1910.1000 at 54 FR 28054-28061.
    - 2. 29 CFR 1910.1000 at 54 FR 36767-36768.
    - 3. 29 CFR 1910.1000 at 54 FR 41244.
    - 4. 29 CFR 1910.1000 at 54 FR 47513.
    - 5. 29 CFR 1910.1000 at 54 FR 50372-50373.
    - 6. 29 CFR 1910.1000 at 55 FR 3724.
    - 7. 29 CFR 1910.1000 at 55 FR 12819.
    - 8. 29 CFR 1910.1000 at 55 FR 19259.
    - 29 CFR 1910.1000 at 55 FR 46950.
    - 10. 29 CFR 1910.1000 at 57 FR 29204-29206.
    - 11. 29 CFR 1910.1000 at 57 FR 42388-42389.

- (b) Subpart Z Toxic and Hazardous Substances 29 CFR 1910.1000 Air Contaminants as adopted by subparagraph (a) of this rule reads as follows: An employee's exposure to any substance listed in Table Z-1-A shall be limited in accordance with the following requirements:
  - 1. Limits for Air Contaminants Columns. An employee's exposure to any substance listed in Table Z-1-A shall not exceed the Time Weighted Average (TWA), Short Term Exposure Limit (STEL) and Ceiling Limit specified for that substance in Table Z-1-A.
  - 2. Skin Designation. To prevent or reduce skin absorption, an employee's skin exposure to substances listed in Table Z-1-A with an "X" in the Skin Designation column following the substance name shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate personal protective equipment, engineering controls or work practices.
  - 3. Definitions. The following definitions are applicable to the limits for air contaminants columns of Table Z-1-A:
    - (i) Time weighted average (TWA) is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.
    - (ii) Short term exposure limit (STEL) is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during the work day unless another time limit is specified in a parenthetical notation below the limit. If another time period is specified, the time weighted average exposure over that time period shall not be exceeded at any time during the working day.
    - (iii) Ceiling is the employee's exposure which shall not be exceeded during any part of the work day. If instantaneous monitoring is not feasible, then the ceiling shall be assessed as a 15-minute time weighted average exposure which shall not be exceeded at any time over a working day.
  - 4. Additional Definition. The terms "substance", "air contaminant", and "material" are equivalent in meaning for 29 CFR 1910.1000.
- (c) Computation formulae. The computation formula which shall apply to employee exposure to more than one substance for which 8-hour time weighted averages are listed in Subpart Z of 29 CFR Part 1910 in order to determine whether an employee is exposed over the regulatory limit is as follows:
  - 1. The cumulative exposure for an 8-hour work shift shall be computed as follows:  $E = (CaTa + CbTb + ... CnTn) \div 8$

## Where:

E is the equivalent exposure for the working shift. C is the concentration during any period of time T where the concentration remains constant. T is the duration in hours of the exposure at the concentration C.

2. To illustrate the formula prescribed above, assume that Substance A has an 8-hour time weighted average limit of 100 ppm noted in Table Z-1-A. Assume that an employee is subject to the following exposure:

Two hours exposure at 150 ppm Two hours exposure at 75 ppm Four hours exposure at 50 ppm

The value of E shall not exceed the 8-hour time weighted average specified in Subpart Z of 29 CFR Part 1910 for the material involved.

Substituting this information in the formula, we have:  $2 \times 150 + 2 \times 75 + 4 \times 50$ )  $\div 8 = 81.25$  ppm.

Since 81.25 ppm is less than 100 ppm, the 8-hour time weighted average limit, the exposure is acceptable.

3. In case of a mixture of air contaminants, an employer shall compute the equivalent exposure as follows:  $Em = (C1 \div L1) + (C2 \div L2) + \dots (Cn \div Ln)$ 

Where:

Em is the equivalent exposure for the mixture. C is the concentration of a particular contaminant. L is the exposure limit for that substance specified in Subpart Z of 29 CFR Part 1910. The value of Em shall not exceed unity (1).

4. To illustrate the formula prescribed above, consider the following exposures:

Substance	Actual concentration of 8	8 hr. TWA PEL
	hour exposure (ppm)	(ppm)
В	500	1000
С	45	200
D	40	200

Substituting in the formula, we have: Em =  $500 \div 1000 + 45 \div 200 + 40 \div 200$ 

Em = 0.500 + 0.225 + 0.200

Em = 0.925

Since Em is less than unity (1), the exposure combination is within acceptable limits.

- (d) To achieve compliance with subparagraphs (b) and (c) of this rule, administrative or engineering controls must first be determined and implemented whenever feasible. When such controls are not feasible to achieve full compliance, protective equipment or any other protective measures shall be used to keep the exposure of employees to air contaminants within the limits prescribed herein. Any equipment and/or technical measures used for this purpose must be approved for each particular use by a competent industrial hygienist or other technically qualified person. Whenever respirators are used, their use shall comply with 29 CFR 1910.134.
- (e) Note: Abbreviations used in Table Z-1-A.
  - 1. As determined from breathing-zone air samples:

- (i) ppm -Parts of vapor or gas per million parts of contaminated air by volume at 25 degrees C and 760 torr.
- (ii) mg/m3 -Approximate milligrams of substance per cubic meter of air.
- (iii) STEL Short Term Exposure Limit, duration is 15 minutes, unless otherwise noted.
- 2. CAS No. Chemical Abstract Service Number, the CAS number is for information only. Enforcement is based on the substance name. For an entry covering more than one metal compound measured as the metal, the CAS number for the metal is given-not the CAS numbers for the individual compounds.
- (3) TABLE Z 1 A Limits For Air Contaminants.

Substance	CAS No.	TWA		STEL		Ceiling		Skin desig- nation
		ppm	mg/m3		mg/m3	ppm	mg/m3	
Acetaldehyde	75-07-0	100	180	150	270	_	_	_
Acetic acid	64-19-7	10	25			_	_	_
Acetic anhydride	108-24-7		_			5	20	_
Acetone	67-64-1	750	1800	1000	2400	_	_	_
Acetonitrile	75-05-8	40	70	60	105	_	_	
2-Acetylaminofluorine; see 29 CFR 1910.1003	53-96-3	_						_
Acetylene dichloride; see 1,2- Dichloroethylene								
Acetylene tetrabromide	79-27-6	1	14	_	_	_	_	_
Acetylsalicylic acid (Asprin)	50-78-2		5	_		<u> </u>		
Acrolein	107-02-8	0.1	0.25	0.3	0.8	_		_
Acrylamide	79-06-1	_	0.03	_		_		Χ
Acrylic acid	79-10-7	10	30	_		_	_	Χ
Acrylonitrile; see 29 CFR 1910.1045	107-13-1	_	_	_		_	_	_
Aldrin	309-00-2	_	0.25	_	_	_	_	Χ
Allyl alcohol	107-18-6	2	5	4	10	_	_	Χ
Allyl chloride	107-05-1	1	3	2	6	_	_	_
Allyd glycidl either (AGE)	106-92-3	5	22	10	44	_	_	_
Allyl propyl disulfide	2179-59-1	2	12	3	18	_	_	_
alpha-Alumina	1344-28-1	_	_	_	_	_	_	_
Total dust	_	_	10		_	_	_	_
Respirable fraction	_	_	5	_		_	_	_
Aluminum (As al) Metal	7429-90-5							
Total dust	_	_	15	_	_	_	_	_
Respirable fraction	_		5					
Pyro powders			5					
Welding fumes			5					
Soluble salts			2					
Alkyls			2				$\vdash$	
4-Aminodiphenyl; see 29 CFR 1910.1003	92-67-1							
2-Aminoethanol; see Ethanolamine								

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2-Aminopyridine	504-29-0	0.5	2					
Amitrole	61-82-5	_	0.2	_	_	_	_	_
Ammonia	7664-41-7	_	_	35	27		_	
Ammonium chloride fume	12125-02-9	_	10	_	20			
Ammonium sulfamate	7773-06-0							
Total dust	_		10		_	_	_	
Respirable fraction	_	_	5	_	_			
n-Amyl acetate	628-63-7	100	525					
Sec-Amyl acetate	626-38-0	125	650					
Aniline and homologs	62-53-3	2	8					X
Anisidine (o-,p-isomers)	29191-52-4		0.5					X
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7440-36-0		0.5		_		_	
ANTU (alpha Naphthylthiourea)	86-88-4		0.3					
Arsenic, organic compounds (as As)			0.5			_	_	
Arsenic, inorganic compounds (as	7440-38-2		0.0					
As); see 29 CFR 1910.1018	7440 00 2							
Arsine	7784-42-1	0.05	0.2					
Asbestos; see 29 CFR 1910.1001	Varies	0.00	0.2					
and 29 CFR 1926.1101	Valles							
Atrizine	1912-24-9		5					
	86-50-0		0.2					X
Barium, soluble compounds (as Ba)			0.5					^
Barium sulfate	7727-43-7		0.5					
	1121-43-1		10					
Total dust			10					
Respirable fraction	47004.05.0		5					
Benomyl	17804-35-2		40					
Total dust			10					
Respirable fraction			5					
Benzene; see 29 CFR 1910.1028	71-43-2	1.0						
Industries excluded from 29 CFR		10	_	25		50	_	
1910.1028 (STEL – 10 minutes)								
Benzidine; see 29 CFR 1910.1003	92-87-5							
p-Benzoquinone; see Quinone								
Benzo(a)pyrene; see Coal tar pitch								
volatiles			_					
Benzoyl peroxide	94-36-0	_	5	_				
Benzyl chloride	100-44-7	1	5	_				
Beryllium and beryllium Compounds	7440-41-7		0.002	_	0.005		0.025	
(as Be) (STEL – 30 minutes)								
Biphenyl; see Diphenyl								
Bismuth telluride, Undoped	1304-82-1							
Total dust		_	15	_	_		_	
Respirable fraction	_	_	5	_	_		_	
Bismuth telluride, Se-doped		_	5	_		_	_	_
Borates, tetra, sodium salts								
Anhydrous	1330-43-4		10	<u> </u>				
Decahydrate	1303-96-4	<u> </u>	10	<u> </u>				
Pentahydrate	12179-04-3		10					
Boron oxide	1303-86-2							
Total dust	_	_	10	_				
Boron tribromide	10294-33-4				_	1	10	_
Boron trifluoride	7637-07-2	_	_	_			3	
Bromacil	314-40-9	1	10	$\vdash$	_	_		_
	1	1		1				

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Bromine	7726-95-6	0.1	0.7	0.3	2	_	_	_
Bromine pentafluoride	7789-30-2	0.1	0.7	_	_	_	_	_
Bromoform	75-25-2	0.5	5	_	_	_	_	X
Butadiene (1,3-Butadiene) see 29	106-99-8							
CFR 1910.1051								
Butane	106-97-8	800	1900	_	_	_	_	_
Butanethiol; see Butyl mercaptan								
2-Butanone (Methyl ethyl ketone)	78-93-3	200	590	300	885	_	_	_
2-Butoxyethanol	111-76-2	25	120	_	_	_		X
n-butyl-acetate	123-86-4	150	710	200	950	_	_	_
Sec-Butyl acetate	105-46-4	200	950	_	_		_	
Tert-Butyl acetate	540-88-5	200	950		_	_	_	_
Butyl acrylate	141-32-2	10	55	_	_	_	_	_
n-Butyl alcohol	71-36-3	_	_	_	_	50	150	X
Sec-Butyl alcohol	78-92-2	100	305		_			
Tert-Butyl alcohol	75-65-0	100	300	150	450			
Butylamine	109-73-9	_	_	_	_	5	15	Χ
Tert-Butyl chromate (as CrO3)	1189-85-1		_		_		0.1	X
n-Butyl glycidyl ether (BGE)	2426-08-6	25	135					
n-Butyl lactate	138-22-7	5	25		_		_	
Butyl mercaptan	109-79-5	0.5	1.5	$\vdash$				
o-sec-Butylphenol	89-72-5	5	30	_				Χ
p-tert-Butyltoluene	98-51-1	10	60	20	120			
Cadmium fume and dust (as Cd);	7440-43-9	10	00	20	120			
see 29 CFR 1910.1027	1440-45-5							
Calcium carbonate	1317-65-3	1		1				
Total dust	1317-03-3		15					
Respirable fraction	<del>-</del>		5	Ε				
Calcium cyanamide	156-62-7		0.5					
		_	0.5					
Calcuim hydroxide Total dust	1305-62-0	-	15	_				
		_	15 5	_				
Respirable fraction	4205 70 0	_	5 5					
Calcium oxide	1305-78-8	1	5				_	
Calcium silicate	1344-95-2		4.5					
Total dust			15					
Respirable fraction			5					
Calcium sulfate	7778-18-9		4.5					
Total dust			15					
Respirable fraction	_		5					
Camphor, synthetic	76-22-2	_	2				_	
Caprolactam	105-60-2				_			
Dust			1	_	3			
Vapor		5	20	10	40		_	
Captafol (Difolatan®)	2425-06-1		0.1					
Captan	133-06-2		5	$\vdash$	_			
Carbaryl (Sevin®)	63-25-2	$\vdash$	5	$\vdash$	<u> </u>		<u> </u>	
Carbofluran (Furadan®)	1563-66-2	$\vdash$	0.1	$\vdash$	<u> </u>			
Carbon black	1333-86-4		3.5	$\vdash$	_			
Carbon dioxide	124-38-9	10,000	18,000	30,000	54,000			
Carbon disulfide	75-15-0	4	12	12	36			X
Carbon monoxide (STEL – 5	630-08-0	35	40	200	229	1500		<u> </u>
minutes)								
Carbon tetrabromide	558-13-4	0.1	1.4	0.3	4	$\vdash$		$\vdash$

Rule 0800-01-0107, continued)								
Carbon tetrachloride	56-23-5	2	12.6		_			_
Carbonyl fluoride	353-50-4	2	5	5	15			
Catechol (Pyrocatechol)	120-80-9	5	20	_	_	_		Χ
Cellulose	9004-34-6							
Total Dust	_	_	15	_				
Respirable fraction	_		5	_	_			
Cesium hydroxide	21351-79-1		2	_	_	_	_	_
Chlordane	57-74-9		0.5	_	_	_	_	X
Chlorinated camphene	8001-35-2		0.5	_	1	_	_	X
Chlorinated diphenyl oxide	55720-99-5		0.5	_	_	_		_
Chlorine	7782-50-5	0.5	1.5	1	3	_		_
Chlorine dioxide	10049-04-4		0.3	0.3	0.9			
Chlorine trifluoride	7790-91-2		_			0.1	0.4	
Chloroacetaldehyde	107-20-0						3	
a-Chloroacetophenone (Phenacyl	532-27-4	0.05	0.3					
chloride)		0.00						
Chloroacetyl chloride	79-04-9	0.05	0.2					
Chlorobenzene	108-90-7	75	350					_
o-Chlorobenzylidene malononitrile	2698-41-1	_	_			0.05	0.4	Χ
Chlorobromomethane	74-97-5	200	1050					
2-Chloro-1,3-butadiene; see b-	1+ 51 0	200	1000					
Chloroprene								
Chlorodifluoromethane	75-45-6	1000	3500					
Chlorodiphenyl (42% Chlorine)	53469-21-9	1000	1					X
(PCB)	55469-21-9		'					^
Chlorodiphenyl (54% Chlorine)	11097-69-1		0.5					X
(PCB)	11037 03 1		0.5					^
1-Chloro,2,3-epoxypropane; see								
Epichlorohydrin								
2-Chloroethanol; see Ethylene								
chlorohydrin								
Chloroethylene; see Vinyl chloride								
Chloroform (Trichloromethane)	67-66-3	2	9.78		_		_	_
Bis(Chloromethyl) ether see 29 CFR		_	00					
1910.1003								
Chloromethyl methyl ether; see 29	107-30-2							
CFR 1910.1003								
1-Chloro-1-nitropropane	600-25-9	2	10					
Chloropentafluoroethane	76-15-3	1000	6320					
Chloropicrin	76-06-2	0.1	0.7					_
Beta-Chloroprene	126-99-8	10	35					X
o-Chlorostyrene	2039-87-4	50	285	75	428			
o-Chlorotoluene	95-49-8	50	250					
2-Chloro-6-trichloro-methpyridine	1929-82-4							
Total dust			15					
Respirable fraction			5					
Chlorpyrifos	2921-88-2		0.2					X
Chromic acid and chromates (as	Varies with		U.Z				0.1	_
CrO3)	compound	1	1				۲. '	
Chromium, sol chromic, chromous	7440-47-3		0.5					
salts (as Cr)	1	1	0.5		_	_		
Chromium, metal and insoluble	7440-47-3		1					
Salts	, ++0 +/ 0	1	[					
<u></u>	I	L	1	1	I		l	l

10.0 0000 0. 0. 10., 00								
Chrysene; see Coal tar pitch								
volatiles								
Clopidol	2971-90-6							
Total dust	_	_	15	_	_	_	_	_
Respirable fraction	_	_	5	_	_	_	_	_
Coal dust (less than 5% SiO2)	_	_	0.2	_	_	_	_	_
Respirable fraction								
Coal dust (greater than or equal to	_	_	0.1	_	_	_	_	
5% SiO2), Respirable quartz								
fraction								
Coal tar pitch volatiles (benzene	65966-93-2	_	0.2		<u> </u>	_	$\vdash$	$\vdash$
soluble fraction), anthrancene, BaP,								
phenanthrene, acidine, chrysene,								
pyrene								
Cobalt metal, dust, and fume (as	7440-48-4		0.05		_		_	_
Co)								
Cobalt carbonyl (as Co)	10210-68-1		0.1					
Cobalt hydrocarbonyl (as Co)	16842-03-8		0.1				_	_
Coke oven emissions; see 29 CFR	_							
1910.1029								
Copper	7440-50-8	_	_	_	_	_		
Fume (as Cu)	_		0.1					
Dusts and mists (as Cu)			1		_		$\vdash$	$\vdash$
Cotton dust (raw)	<u> </u>		1	_	_	_	_	$\vdash$
This 8-hour TMA applies to respirat	la duet ac m	ASCUITAG	hyav	ortical d	dutriator o	otton d	luct can	nnlar o

This 8-hour TWA applies to respirable dust as measured by a vertical elutriator cotton dust sampler or equivalent instruction. The time-weighted average applies to the cotton waste processing operations of waste recycling (sorting, blending, cleaning and willowing) and garnetting. See also 29 CFR 1910.1043 for cotton dust limits applicable to other sectors.

13 10:10 40 101 Cotton dast limits appr	ioabic to other	01 30010	J.					
Crag herbicide (Sesone)	136-78-7	_		_	_		_	
Total dust			10					
Respirable fraction	_	_	5		_			
Cresol, all isomers	1319-77-3	5	22		_			X
Crotonaldehyde	123-73-9;	2	6		_			
	4170-30-3							
Crufomate	299-86-5	_	5		_			
Cumene	98-82-8	50	245		_			X
Cyanamide	420-04-2	_	2		_			
Cyanides (as CN)	Varies with	_	5		_			
	compound							
Cyanogen	460-19-5	10	20	_	_	_	_	_
Cyanogen chloride	506-77-4	_	_	_	_	0.3	0.6	_
Cyclohexane	110-82-7	300	1050	_	_	_	_	_
Cyclohexanol	108-93-0	50	200	_	_	_	_	Χ
Cyclohexanone	108-94-1	25	100	_	_	_	_	Χ
Cyclohexene	110-83-8	300	1015	_	_	_	_	_
Cyclohexylamine	108-91-8	10	40	_	_	_	_	_
Cyclonite	121-82-4	_	1.5	_	_	_	_	Χ
Cyclopentadiene	542-92-7	75	200	_	_	_	_	_
Cyclopentane	287-92-3	600	1720		_			
Cyhexatin	13121-70-5		5					
2,4-D (Dichlorophenoxyacetic acid)	94-75-7		10					
Decaborane	17702-41-9	0.05	0.3	0.15	0.9	_		X
Demeton (Systox®)	8065-48-3		0.1					X

(F	Rule 0800-01-0107,	continued)	
	Dichlorodiphenyltrich	loroethane	١

Rule 0800-01-0107, continued)								
Dichlorodiphenyltrichloroethane	50-29-3		1	_	_		_	Χ
(DDT)								
Dichlorvos (DDVP)	62-73-7	_	1	_		_	_	X
Diacetone alcohol (4-Hydroxy-4-	123-42-2	50	240	_	_	_	_	_
methyl-2-pentanone)								
1,2-Diaminoethane; see								
Ethylenediamine								
Diazinon	333-41-5	_	0.1	_	_			Χ
Diazomethane	334-88-3	0.2	0.4	_	_			
Diborane	19287-45-7	0.1	0.1	_		_	_	
1,2-Dibromo-3-chloropropane; see	96-12-8							
29 CFR 1910.1044								
2-N-Dibutylaminoethanol	102-81-8	2	14		_			
Dibutyl phosphate	107-66-4	1	5	2	10			
Dibutyl phthalate	84-74-2		5			_		
Dichloroacetylene	7572-29-4	_				0.1	0.4	
o-Dichlorobenzene	95-50-1	_					300	
p-Dichlorobenzene	106-46-7	75	450	110	675		_	
3,3'-Dichlorobenzidine see 29 CFR	91-94-1		1.00	10	0.0			
1910.1003								
Dichlorodifluoromethane	75-71-8	1000	4950					
1,3-Dichloro-5,5-dimethyl hydantion		_	0.2		0.4			
1,1-Dichlorothane	75-34-3	100	400	$\vdash$	0.4			
1,2-Dichloroethylene	540-59-0	200	790					
Dichloroethyl ether	111-44-4	5	30	10	60			X
Dichloromethane; see Methylene	111-44-4	5	30	10	00			<u> </u>
chloride								
Dichloromonofluoro-methane	75-43-4	10	40					
1,1-Dichloro-1-nitroethane	594-72-9	2	10					
1,2-Dichloropropane; see	334-12-3	_	10					
Propylenedichloride								
1,3-Dichloropropene	542-75-8	1	5					X
2,2-Dichloropropionic acid	75-99-0	1	6	Ε				^
Dichlorotetrafluoroethane	76-14-2	1000	7000	F				F
	141-66-2	1000	0.25	_				X
Dicrotophos Dicyclopentadions				_			_	<u> </u>
Dicyclopentadiene	77-73-6	5	30	_			_	
Dicyclopentadienyl iron	102-54-5		10	_			_	
Total dust		_	10					
Respirable fraction	-		5	_				
Dieldrin	60-57-1	_	0.25					X
Diethanolamine	111-42-2	3	15	_				
Diethylamine	109-89-7	10	30	25	75	_		
2-Diethylaminoethanol	100-37-8	10	50	$\vdash$			<u> </u>	Χ
Diethylene triamine	111-40-0	1	4	$\vdash$			<u> </u>	
Diethyl ether, see Ethyl ether	00.55.5	00-	<u> </u>	1			ļ	<u> </u>
Diethyl ketone	96-22-0	200	705	$\vdash$	<u> </u>		<u> </u>	<u> </u>
Diethyl phthalate	84-66-2		5	$\vdash$				<u> </u>
Difluorodibromomethane	75-61-6	100	860	$\vdash$				
Diglycidyl ether (DGE)	2238-07-5	0.1	0.5	$\vdash$			$\vdash$	
Dihydroxybenzene; see								
Hydroquinone				1				
Diisobutyl ketone	108-83-8	25	150	$\vdash$	<u> </u>		$\vdash$	<u> </u>
Diisopropylamine	108-18-9	5	20	$\vdash$	_	_	$\vdash$	Χ

(Rule 0800-01-0107, continued	)
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Rule 0800-01-0107, continued)								
4-Dimethylaminoazo-benzene; see	60-11-7	_	_	_		_	_	
29 CFR 1910.1003								
Dimethoxymethane; see Methytal								
Dimethyl acetamide	127-19-5	10	35	_	_			X
Dimethylamine	124-40-3	10	18					
Dimethylaminobenzene; see								
Xylidine								
Dimethylaniline (N,N-Dimethyl-	121-69-7	5	25	10	50	_	_	X
analine)	121 00 7			'				
Dimethylbenzene; see Xylene								
Dimethyl-1,2-dibromo-2,2-	300-76-5		3			_	_	X
dichloroethyl phosphate	000 70 0							
Dimethylformamide	68-12-2	10	30					X
2,6-Dimethyl-4-hepta-none; see	00 12 2	10	00					
Diisobutyl ketone								
1,1-Dimethylhydrazine	57-14-7	0.5	1					X
Dimethylphthalate	131-11-3	0.5	5					^
Dimethyl sulfate	77-78-1	0.1	0.5					X
		0.1	5					^
Dinitolmide (3,5-Dinitro-o- toluamide	146-01-6		ວ 1					X
Dinitrobenzene (all isomers)	528-29-0		1					^
(alpha-)								
(meta-)	99-65-0							
(para-)	100-25-4		0.0					V
Dinitro-o-cresol	534-52-1		0.2			_		X
Dinitrotoluene	25321-14-6	_	1.5	_				X
Dioxane (Diethylene dioxide)	123-91-1	25	90					X
Dioxathion (Delnav)	78-34-2	_	0.2					Χ
Diphenyl (Biphenyl)	92-52-4	0.2	1					_
Diphenylamine	122-39-4		10			_	_	
Diphenylmethane diisocyanate; see								
Methylene bisphenyl isocyanate								
Dipropylene glycol methyl ether	34590-94-8		600	150	900			Χ
Diprophy ketone	123-19-3	50	235	_	_	_	_	
Diquat	85-00-7		0.5		_	_	_	
Di-sec octyl phthalate (Di-2-	117-81-7		5		10	_	_	
ethylhexyl-phthalate)								
Disulfiram	97-77-8		2		_	_	_	
Disulfoton	298-04-4		0.1		_	_	_	X
2-6Di-tert-butyl-p-cresol	128-37-0		10		_			
Diuron	330-54-1	_	10	_				_
Divinyl benzene	1321-74-0	10	50	_		_	_	
Emery	12415-34-8	_	_	_	_	_	_	
Total dust	<u> </u>		10		_			
Respirable fraction	<u> </u>		5	_		_	_	
Endosulfan	115-29-7	_	0.1	_	_	_	_	X
Endrin	72-20-8	_	0.1	_	_	_		X
Epichlorohdrin	106-89-8	2	8					X
EPN	2104-64-5		0.5					X
1,2-epoxypropane; see Propylene			5.0					•
oxide								
2-3-Epoxy-1-propanol; see Glydicol			1					
Ethanethiol; see Ethy mercaptan			<u> </u>					
Ethanolamine	141-43-5	3	8	6	15			
Luianoiannie	143-3	P	U	μ	ıJ			

Rule 0800-01-0107, continued)								
Ethion	563-12-2	_	0.4	_	_	_	_	Χ
2-Ethoxyethanol	110-80-5	200	740	_	_	_	_	Χ
2-Ethoxyethyl acetate (Cellosolve	111-15-9	100	540	_	_		_	X
acetate)								
Ethyl acetate	141-78-6	400	1400	_	_	_	_	_
Ethyl acrylate	140-88-5	5	20	25	100	_	_	Χ
Ethyl alcohol (Ethonal)	64-17-5	1000	1900	_	_	_	_	_
Ethylamine	75-04-7	10	18	_	_	_	_	_
Ethyl amyl ketone (5-Methyl-3-	541-85-5	25	130	_	_	<u> </u>	$\vdash$	_
heptanone)								
Ethyl benzene	100-41-4	100	435	125	545			
Ethyl bromide	74-96-4	200	890	250	1110	_	_	_
Ethyl butyl ketone (3-Heptanone)	106-35-4	50	230	_	_	_	_	_
Ethyl chloride	75-00-3	1000	2600	_	_	_	_	_
Ethyl ether	60-29-7	400	1200	500	1500	_	_	_
Ethyl formate	109-94-4	100	300	_	_	_	_	_
Ethyl mercaptan	75-08-1	0.5	1	_	_	_	_	_
Ethyl silicate	78-10-4	10	85	_	_	_	_	_
Ethylene chlorohydrin	107-07-3	_	_	_	_	1	3	X
Ethylenediamine	107-15-3	10	25	_	_	_	_	_
Ethylene dibromide (STEL – 5	106-93-4	20	_	_	30	_	50	_
minutes)								
Ethylene dichloride	107-06-2	1	4	2	8		_	_
Ethylene glycol	107-21-1	_	_		_	50	125	_
Ethylene glycol dinitrate	628-96-6	_	_	_	0.1		_	Х
Ethylene glycol methyl acetate; see								
Methyl cellosolve acetate								
Ethyleneimine; see 29 CFR	151-56-4							
1910.1003								
Ethylene oxide; see 29 CFR	75-21-8							
1910.1047								
Ethylidene chloride; see 1,1-								
Dichloroethane								
Ethylidene norbormene	16219-75-3			_	_	5	25	_
Nethylmorpholine	100-74-3	5	23	_	_	_	_	X
Fenamiphos	22224-92-6	_	0.1	_	_		_	Χ
Fensulfothion (Dasanit)	115-90-2	_	0.1	_	_	_	_	_
Fenthion	55-38-9	_	0.2	_	_	_	_	Χ
Ferbam	14484-64-1	_	_	_	_	_	_	_
Total dust	_	_	10	_	_	_	_	_
Ferrovanadium dust	12604-58-9	_	1		3		_	_
Fluorides (as F)	Varies with		2.5	_	F	$\vdash$	$\vdash$	_
, ,	compound							
Fluorine		01.	0.2	_	_	<u> </u>	<b>—</b>	_
Fluorotrichloromethane	75-69-4		_	_	<u> </u>	1000	5600	_
(Trichlorofluoromethane)								
Fonofos	944-22-9	_	0.1		_	_	_	Χ
Formaldehyde; see 29 CFR								
1910.1048								
Formamide	75-12-7	20	30	30	45	<u> </u>	<b>—</b>	_
Formic acid	64-18-6	5	9		F	$\vdash$	$\vdash$	_
Furfural	98-01-1	2	8	_	F	$\vdash$	$\vdash$	Χ
Furfuryl alcohol	98-00-0	10	40	15	60	$\vdash$	$\vdash$	Χ
/	<u> </u>		<u> </u>	1	1		<u> </u>	

Rule 0800-01-0107, continued)								
Gasoline	8006-61-9	300	900	500	1500	_	_	_
Bermanium tetrahydride	7782-65-2	0.2	0.6	_	_		_	_
Glutaraldehyde	111-30-8	_	_	_	_	0.2	8.0	_
Glycerin (mist)	56-81-5	_	_	_	_	_	_	_
Total dust	_	_	10		_			
Respirable fraction		_	5	_	_	_	_	
Glycidol	556-52-5	25	75	_	_	_	_	
Glycol monoethyl ether see 2-								
Ethoxyethanol								
Grain dust (oat, wheat, barley)		_	10	_	_	_	_	
Graphite, natural respirable dust	7782-42-5		2.5	_	_			
Graphite, synthetic		_			_			
Total dust	_		10					
Respirable fraction			5					
Guthion®, see Azinphos methyl			Ť					
Gypsum	13397-24-5							1
Total dust			15	$\vdash$				$\perp$
Respirable fraction			5	_				
Hafnium	7440-58-6		0.5					
Heptachlor	76-44-8		0.5					X
Heptane (n-Heptane)	142-82-5	400	1600	500	2000			^
Hexaclorobutadiene	87-68-3	0.02	0.24	500	2000			
	77-47-4	0.02	0.24	_	Ε			
Hexachlorocyclo-pentadiene								
Hexacloroethane	67-72-1	1	10					X
Hexachloronapthalene	1335-87-1	_	0.2					X
Hexafluoroacetone	684-16-2	0.1	0.7					Х
n-Hexane	110-54-3	50	180		_			
Hexane isomers		500	1800	1000	3600	_		
	compound	_	00					
2-Hexanone (Methyl n-butyl	591-78-6	5	20					
ketone)	100.10.1	50	005		000			
Hexone (Methyl isobutyl ketone)	108-10-1	50	205	75	300			
sec-Hexyl acetate	108-84-9	50-	300				<u> </u>	
Hexylene glycol	107-41-5					25	125	
Hydrazine	302-01-2	0.2	0.1	_	_	_		X
Hydrogenated terphenyls	61788-32-7		5		_			
Hydrogen bromide	10035-10-6				_	3	10	
Hydrogen chloride	7647-01-0					5	7	
Hydrogen cyanide	74-90-8	_		4.7	5			X
Hydrogen fluoride (as F)	7664-39-3	3	_	6				
Hydrogen peroxide	7722-84-1	1	1.4	_	_	_	_	_
Hydrogen selenide (as Se)	7783-07-5	0.05	0.2	_	_	_		
Hydrogen sulfide	7783-06-4	10	14	15	21			
Hydroquinone	123-31-9	_	2	_	_		_	_
2-Hydroxypropyl acrylate	999-61-1	0.5	3					Χ
Indene	95-13-6	10	45	<u></u>				
Indium and compounds (as in)	7440-74-6		0.1					
lodine	7553-56-2	_	_			0.1	1	_
lodoform	75-47-8	0.6	10	_				_
Iron oxide fume	1309-37-1	_	10	_	_			_
Iron pentacarbonyl (as Fe)	13463-40-6	0.1	0.8	0.2	1.6			
Iron salts (soluble) (as Fe)		<del>                                     </del>		+	+ -		-	1
iron saits (soluble) (as re)	Varies with		1	_	_	<u> </u>		_

123-92-2	100	525	_	_			_
123-51-3	100	360	125	450	_	_	_
110-19-0	150	700	_	_	_	_	_
78-83-1	50	150	_	_	_	_	
26952-21-6	50	270	_	_	_	_	X
			_	_			
			0.02	_	_		Х
		105					
			310	1185			
							$\vdash$
				1			╘
				_			Χ
							^
			75	260			Ε—
4016-14-2	50	240	75	300			
		4.0					
	0.5	0.9	1.5	3			
7439-92-1							
1317-65-3							
_	_		_				
_	_	5	_	_			
58-89-9	_	0.5	_	_	_	_	Χ
7580-67-8	_	0.025		_	_	_	_
68476-85-7	1000	1800		_	_	_	_
546-93-0	_	_	_	_	_	_	
_		15		_	_	_	
		5	_	_	_	_	
1309-48-4	_					_	
		10	_	_			
121-75-5				_	_	_	
_		10					X
108-31-6	0.25						
	0.20	Ľ				5	
		1		3		5	
				3			X
12079-03-1		0.1					^
1017 05 7		4					<del>                                     </del>
		l l					<del>-</del>
1317-65-3		4.5		_	_		
7400 07 0		5			_	_	
7439-97-6	$\vdash$					0.1	X
		0.04		0.00			
7439-97-6	$\vdash$	0.01		0.03			X
				ļ			<u> </u>
	<u> </u>						Χ
			25	100			<u> </u>
	100	70	1	1	<u></u>	<u> </u>	X
79-41-4	20	70					-
79-41-4	20						
79-41-4 16752-77-5 72-43-5		2.5					
	123-51-3  110-19-0 78-83-1 26952-21-6 78-59-1 4098-71-9 109-59-1 108-21-4 67-63-0 75-31-0 768-52-5 108-20-3 4016-14-2 ————————————————————————————————————	123-51-3         100           110-19-0         150           78-83-1         50           26952-21-6         50           78-59-1         4           4098-71-9         0.005           109-59-1         25           108-21-4         250           67-63-0         400           75-31-0         5           768-52-5         2           108-20-3         500           4016-14-2         50	123-51-3         100         360           110-19-0         150         700           78-83-1         50         150           26952-21-6         50         270           78-59-1         4         23           4098-71-9         0.005         —           109-59-1         25         105           108-21-4         250         950           67-63-0         400         980           75-31-0         5         12           768-52-5         2         10           108-20-3         500         2100           4016-14-2         50         240           —         —         10           —         —         5           463-51-4         0.5         0.9           7439-92-1         —         5           1317-65-3         —         —           —         —         5           58-89-9         —         0.5           7580-67-8         —         0.025           68476-85-7         1000         1800           546-93-0         —         —           —         —         10           <	123-51-3         100         360         125           110-19-0         150         700         —           78-83-1         50         150         —           26952-21-6         50         270         —           78-59-1         4         23         —           4098-71-9         0.005         —         0.02           109-59-1         25         105         —           108-21-4         250         950         310           67-63-0         400         980         500           75-31-0         5         12         10           768-52-5         2         10         —           108-20-3         500         2100         —           4016-14-2         50         240         75           —         —         10         —           463-51-4         0.5         0.9         1.5           7439-92-1         15         —           1317-65-3         —         —         5           -         15         —         —           58-89-9         —         0.5         —           7580-67-8         —         0.025 <td>123-51-3         100         360         125         450           110-19-0         150         700         —         —           78-83-1         50         150         —         —           26952-21-6         50         270         —         —           78-59-1         4         23         —         —           4098-71-9         0.005         —         0.02         —           109-59-1         25         105         —         —           108-21-4         250         950         310         1185           67-63-0         400         980         500         1225           75-31-0         5         12         10         —           4016-14-2         50         240         75         360           —         10         —         —         —           463-51-4         0.5         0.9         1.5         3           7439-92-1         1317-65-3         —         —           1317-65-3         —         —         —           58-89-9         —         0.5         —         —           788-78-7         1000         1800</td> <td>123-51-3         100         360         125         450         —           110-19-0         150         700         —         —         —           78-83-1         50         150         —         —         —           26952-21-6         50         270         —         —         —         —           4098-71-9         0.005         —         0.02         —<td>123-51-3         100         360         125         450         —         —           78-83-1         50         150         —         —         —         —           26952-21-6         50         270         —         —         —         —           78-59-1         4         23         —         —         —         —           109-59-1         25         105         —</td></td>	123-51-3         100         360         125         450           110-19-0         150         700         —         —           78-83-1         50         150         —         —           26952-21-6         50         270         —         —           78-59-1         4         23         —         —           4098-71-9         0.005         —         0.02         —           109-59-1         25         105         —         —           108-21-4         250         950         310         1185           67-63-0         400         980         500         1225           75-31-0         5         12         10         —           4016-14-2         50         240         75         360           —         10         —         —         —           463-51-4         0.5         0.9         1.5         3           7439-92-1         1317-65-3         —         —           1317-65-3         —         —         —           58-89-9         —         0.5         —         —           788-78-7         1000         1800	123-51-3         100         360         125         450         —           110-19-0         150         700         —         —         —           78-83-1         50         150         —         —         —           26952-21-6         50         270         —         —         —         —           4098-71-9         0.005         —         0.02         — <td>123-51-3         100         360         125         450         —         —           78-83-1         50         150         —         —         —         —           26952-21-6         50         270         —         —         —         —           78-59-1         4         23         —         —         —         —           109-59-1         25         105         —</td>	123-51-3         100         360         125         450         —         —           78-83-1         50         150         —         —         —         —           26952-21-6         50         270         —         —         —         —           78-59-1         4         23         —         —         —         —           109-59-1         25         105         —

Rule 0800-01-0107, continued)								
Total dust	_	_	10	_	_	_	_	_
2-Methoxyethanol; see Methyl								
cellosolve								
4-Methoxyphenol	150-76-5	_	5	_	_	_	_	_
Methyl acetate	79-20-9	200	610	250	760	_	_	_
Methyl acetylene (Propyne)	74-99-7	1000	1650	_	_			
Methyl acetylene-propadiene		1000	1800	1250	2250	_	_	_
mixture (MAPP)								
Methyl acrylate	96-33-3	10	35		_	_	_	Χ
Methylacrylonitrile	126-98-7	1	3	_		_	_	Χ
Methylal (Dimethoxy-methane)	109-87-5	100	3100	_				
Methyl alcohol	67-56-1	200	260	250	325			Χ
Methylamine	74-89-5	10	12	_	_			
Methyl amyl alcohol; see Methyl	7 + 00 0	10	12					
isobutyl carbinol								
Methyl n-amyl ketone	110-43-0	100	465					
Methyl bromide		5	20					X
Methyl butyl ketone; see 2-	1 4-03-8	5	20		_	_		^
Hexanone								
Methyl cellosolve (2-	109-86-4	25	80	L			L	X
Methoxyethanol)	109-60-4	25	80					^
Methyl cellosolve acetate (2-	110-49-6	25	120					X
\	110-49-6	25	120					^
Methoxyethyl acetate)	74 07 2	50	105	100	210			
Methyl chloride	74-87-3	50	105	100				
Methyl chloroform (1,1,1-	71-55-6	350	1900	450	2450		_	
Trichloroethane)	407.05.0	0	0	4	4.0			
Methyl 2-cyanoacrylate	137-05-3	2	8	4	16			
Methyl cyclohexane	108-87-2	400	1600	_				_
Methylcyclohexanol	25639-42-3		235		<u> </u>			_
o-Methylcyclohexanone	583-60-8	50	230	75	345	_		X
Methylcyclopentadienyl manganese	12106-13-3		0.2				_	X
tricarbonyl (as Mn)			_					
Methyl demeton	8022-00-2		0.5					Χ
4,4'-Methylene bis (2-chloroaniline (MBOCA)	101-14-4	0.02	0.22					X
Methylene bis (4-cyclohexy-	5124-30-1					0.01	0.11	X
isocyanate)	3124-30-1					0.01	0.11	^
Methylene chloride; see 29 CFR	75-09-2		$\vdash$	$\vdash$				
1910.1052	75 05 2							
Methylenedianiline; see 29 CFR								
1910.1050								
Methyl ethyl ketone peroxide	1338-23-4		$\vdash$	$\vdash$		0.7	5	
(MEKP)	1000-20-4					0.7	)	
Methyl formate	107-31-3	100	250	150	375		L	
Methyl hydrazine (monomethyl	60-34-4	100				0.2	0.35	X
hydrazine)	00-04-4	_				0.2	0.00	^
Methyl iodide	74-88-4	2	10					X
Methyl isoamyl ketone		2 50	240	F			<del>-</del>	^
	108-11-2	25		40	165			X
Methy isobutyl carbinol	100-11-2	20	100	40	165			^
Methyl isobutyl ketone; see Hexone	004.00.0	0.00	0.05	1			1	V
Methyl isocyanate	1	0.02	0.05	_				X
Methyl isopropyl ketone	563-80-4	200	705					
Methyl mercaptan	74-93-1	0.5	1					$\vdash$

(ule 0800-01-0107, continued)	•							
Methyl methacrylate	80-62-6	100	410					
Methyl parathion	298-00-0	_	0.2	_	_	_	_	Х
Methyl propyl ketone; see 2-								
Pentanone			1		1			
Methyl silicate	681-84-5	1	6	_	_		_	_
alpha-Methyl styrene	98-83-9	50	240	100	485		_	
Methylene disphenyl isocyanate	101-68-8	_	_	_	_	0.02	0.2	_
(MDI)								
Metribuzin	21087-64-9		5	_				
Mica; see Silicates								
Molybdenum (as Mo)	7439-98-7							
Soluble compounds			5	_				
Insoluble compounds								
Total dust			10					
Monocrotophos (Azodrin®)	6923-22-4		0.25					
Monomethyl aniline	100-61-8	0.5	2					X
Morpholine	110-91-8	20	70	30	105			X
Naphtha (Coal tar)	8030-30-6	100	400			$\perp$		
Naphthalene	91-20-3	100	50	15	75			
alpha-Naphthylamine; see 29 CFR	134-32-7	10	50	10	13			
1910.1003	134-32-7							
beta-Naphthylamine; see 29 CFR	91-59-8							
1910.1003	91-39-6							
Nickel carbonyl (as Ni)	13463-39-3	0.001	0.007					
Nickel, metal and insoluble	7440-02-0	0.001	1					
compounds (as Ni)	7440-02-0		'					
Nickel, soluble compounds (as Ni)	7440-02-0		0.1					
Nicotine	54-11-5		0.5					X
Nitric acid	7697-37-2	2	5	4	10			
Nitric acid Nitric oxide	10102-43-9	25	30	7	10			
p-Nitroaniline	100-01-6	25	3	Ε				X
P-Nitroariilite Nitrobenzene	98-95-3		5	Ε-				X
p-Nitrochlorobenzene		ı	1					
	100-00-5	_	I					Х
4-Nitrodiphenyl; see 29 CFR	92-93-3							
1910.1003	70.04.0	400	240					
Nitroethane	79-24-3	100	310					
Nitrogen dioxide	10102-44-0		20	1	1.8		+	
Nitrogen trifluoride	7783-54-2	10	29	_	0.4		+	
Nitroglycerinl	55-63-0	400	050	_	0.1			Х
Nitromethane	75-52-5	100	250	$\vdash$				
1-Nitropropane	108-03-2	25	90	_	<del>                                     </del>			
2-Nitropropane	7946-9	10	35	_	<del>                                     </del>			
N-Nitrosodimethylamine; see 29	62-79-9		1		1			
CFR 1910.1016			1		1		1	
Nitrotoluene			1		1			
o-isomer	88-72-2	2	11	$\vdash$	$\perp$			Х
m-isomer	99-08-1	2	11	_				Χ
p-isomer	99-99-0	2	11		$\vdash$			Χ
Nitrotrichloromethane; see			1		1			
Chloropicin			1		1			
Nonane	111-84-2	200	1050		<u> </u>			
Octachloronaphthalene	2234-13-1		0.1		0.3			Χ
Octane	111-65-9	300	1450	375	1800	$\vdash$	<u> </u>	<b>⊢</b>

Rule 0800-01-0107, continued)								
Oil mist, mineral	8012-95-1		5	_				_
Osmium tetroxide (as Os)	20816-12-0	0.0002	0.002	0.0006	0.006			
Oxalic acid	144-62-7	_	1	_	2		_	
Oxygen difluoride	7783-41-7		_	_		0.05	0.1	
Ozone	10028-15-6	0.1	0.2	0.3	0.6	_	_	_
Paraffin wax fume	8002-74-2	_	2	_				
Paraquat, respirable dust	1910-42-5	_	0.1	_				Χ
	4685-14-7							
	2074-50-2							
Parathion	5838-2	_	0.1	_	_	_	_	Χ
Particulates not otherwise regulated								
Total dust	_		15	_				_
Respirable fraction	_	_	5	_		_		_
Pentaborane	19624-22-7	0.005	0.01	0.015	0.03		_	
Pentachloronaphthalene	1321-64-8	_	0.5	_	_		_	Х
Pentachlorophenol	87-86-5		0.5	_	_			X
Pentaerythirtol	115-77-5		_					
Total dust		<u> </u>	10	<b>—</b>	_			_
Respirable fraction	_		5	<b>—</b>				
Pentane	109-66-0	600	1800	750	2250			
2-Pentanone (Methyl propyl		200	700		875			
ketone)			. 00		0.0			
Perchloroethylene	127-18-4	25	170		_	_		
(Tetrachloroethylene)								
Perchloromethyl mercaptan	594-42-3	0.1	0.8		_	_		
Perchloryl fluoride		3		6	28			
Perlitte	7010010							
Total dust			15					
Respirable fraction			5					
Petroleum distillates (Naphtha)		400	1600					
(Rubber Solvent)		100	1000					
Phenol	108-95-2	5	19					Χ
Phenothiazine	92-84-2		5					X
p-Phenylene diamine	106-50-3		0.1					X
Phenyl ether, vapor	101-84-8	1	7					
Phenyl ether-biphenyl mixture,		1	7					
vapor			<b>'</b>					
Phenylethylene; see Styrene								
Phenyl glycidyl ether (PGE)	122-60-1	1	6					
Phenylhydrazine		5	20	10	45			Χ
Phenyl mercaptan	108-98-5	0.5	2		_			
Phenylphosphine	638-21-1	0.5				0.05	0.25	
Phorate	298-02-2		0.05	L	0.2	U.UU		X
Phosdrin (Mevinphos®)		0.01	0.03		0.2			X
Phosgene (Carbonyl chloride)	75-44-5	0.01	0.1	0.03	0.0			
Phosphine		0.1	0.4	1	<u> </u>			
Phosphoric acid	7664-38-2	0.5	0. <del>4</del> 1	<u> </u>	3			
		_	0.1	F	J	_		_
Phosphorus (yellow)	7723-14-0	0.1	0.1				_	
Phosphorus oxychloride	10025-87-3	U. I	0.6					
Phosphorus pentachloride	10026-13-8 1314-80-3		1		_			
	ロスコカニメロニス	<b>—</b>	1	<b>─</b>	3	<b>—</b>	_	_
Phosphorus pentasulfide		0.0	4.5	o -				
Phosphorus pentasulfide Phosphorus trichloride Phthalic anhydride		0.2	1.5 6	0.5	3		_	_

Rule 0800-01-0107, continued)								
m-Phthalodinitrile	626-17-5	_	5	_	_	_		_
Picloram	1918-02-1	_	_	_	_		_	
Total dust	_	_	10	_	_		_	
Respirable fraction	_	_	5	_	_	_	_	
Picric acid	88-89-1	_	0.1	_	_	_	_	x
Piperazine dihydro-chloride	142-64-3		5	_	_		_	
Pindone (2-Pivalyl-1,3-indandione	83-26-1		0.1	_	_		_	
Plaster of Paris	26499-65-0		_	_	_		_	
Total dust			15		_		_	
Respirable fraction			5					
Platinum (as Pt)	7440-06-4			_	_		_	
Metal			1	_	_			
Soluble salts	_		0.002				_	
Portland cement	65997-15-1		_		_	_	_	
Total dust	_		10					
Respirable fraction			5		_			
Potassium hydroxide	1310-58-3						2	
Propane	74-98-6	1000	1800				_	
Propargl alcohol	107-19-7	1	2					X
beta-Propriolactone; see 29 CFR	57-57-8	'						
1910.1013	37-37-0							
Propionic acid	79-09-4	10	30					
Propoxur (Baygon)	114-26-1	10	0.5					
n-Propyl acetate		200		 250	1050			
n-propyl alcohol	71-23-8	200	500	250	625			
n-Propyl nitrate	627-13-4	25 25	105	40	170		_	
	78-87-5	75	360	110	510		_	
Propylene dichloride		0.05	0.3	110	510			_
Propylene glycol dinitrate Propylene glycol monomethyl ether		100	380	150	 540		_	
		2		150	540			X
Propylene imine	75-55-8	20	5					^
Propylene oxide	75-56-9	20	50					
Propyne; see Methyl acetylene	0000 04 7		-					
Pyrethrum	8003-34-7		5					
Pyridine		5	15			_	_	_
Quinone		0.1	0.4	_	_			
Resorcinol	108-46-3	10	45	20	90		_	
Rhodium (as Rh), metal fume and	7440-16-6	_	0.1					_
insoluble compounds			0.004					
Rhodium (as Rh), soluble	744-16-6	_	0.001		_			
compounds			1.0					
Ronnel	299-84-3		10		_		_	
Rosin core solder pyrolysis			0.1					_
products, as formaldehyde			_					
Rotenone	83-79-4		5	_				_
Rouge		ļ						
Total dust			10					
Respirable fraction			5					
Selenium compounds (as Se)	7782-49-2		0.2			_		
Selenium hexafluoride (as Se)		0.05	0.4					
Silica, amorphous, precipitated and	112926-00-	$\vdash$	6	_				_
gel	8							
Silica, amorphous, diatomaceous earth, containing less than 1%	61790-53-2	$\vdash$	6	_				_
		1	1	1	1	1	1	ı

(Rule 0800-01-0107, continued)								
crystaline silica								
Silica, crystaline cristobalite,	14464-46-1	_	0.05	_	_	_	_	_
respirable dust								
Silica, crystaline quartz, respirable	14808-60-7	_	0.1	_	_	_	_	_
dust								
Silica, crystaline tripoli (as quartz),	1317-95-9	_	0.1		_		_	_
respirable dust								
Silica, crystaline tridmite, respirable	15468-32-3	_	0.05	_	_		_	_
dust								
Silica, fused, respirable dust	60676-86-0	_	0.1	_	_	_	_	_
Silicates (less than 1% (crystaline								
silica)								
Mica (respirable dust)	12001-26-2	_	3	_	_		_	_
Soapstone, total dust	_	_	6	_	_		_	_
Soapstone, respirable dust		_	3	_	_		_	_
Talc (containing asbestos); use								
asbestos limit See 29 CFR								
1910.1001								
Talc (containing no asbestos);	14807-96-6		2	_	_		_	_
Respirable dust								
Tremolite (use asbestos limit);								
See 29 CFR 1910.1001								
Silicon	7440-21-3							
Total dust		_	10	_	_		_	_
Respirable fraction			5	_	_			
Silicon carbide	409-21-2							
Total dust	_		10					
Respirable fraction	_		5	$\vdash$	_		_	_
Silicon tetrahydride	7803-62-5	5	7	$\vdash$	_		_	_
Silver, metal and soluble	7440-22-4		0.01				_	_
compounds (as Ag)			0.0.					
Soapstone; see Silicates								
Sodium azide	26628-22-8							
(as HN3)	_	_			_	0.1		X
(as NaN3)	_			_		_	0.3	X
Sodium bisulfite	7631-90-5		5	_			_	
Sodium fluoroacetate	62-74-8		0.05		0.15		_	X
Sodium hydroxide	1310-73-2		_		_		2	
Sodium metabisulphite	7681-57-4		5					
Starch	9005-25-8							
Total dust	_		15				_	_
Respirable fraction			5		_			
Stibine	7803-52-3	0.1	0.5					
Stoddard solvent	8052-41-3	100	525					
Strychnine	57-24-9	_	0.15					
Styrene	100-42-5	50	215	100	425			
Subtilisins (Protolytic enzymes)	9014-01-1				0.00006	$\vdash$		
sample 600-800 lpm for at least 60	0014011				0.00000			
minutes								
Sucrose	57-50-1			$\vdash$		$\vdash$		
Total dust			15					
Respirable fraction			5	$\vdash$				
Sulfur dioxide	7446-09-5	2	5	5	10			
Outful Gloving	U-440-09-0	<u> </u>	<u> </u>	Υ	110	1	İ	İ

Rule 0800-01-0107, continued)								
Sulfur hexafluoride	2551-62-4	1000	6000					
Sulfuric acid	7664-93-9	_	1	_	_	_		
Sulfur monochloride	10025-67-9	_	_	_	_	1	6	
Sulfur pentafluoride	5714-22-7	_	_	_	_	0.01	0.1	
Sulfur tetrafluoride	7783-60-0	_		_	_	0.1	0.4	_
Sulfuryl fluoride	2699-79-8	5	20	10	40		_	_
Sulprofos	35400-43-2		1	_	_			
Systox®, see Demeton								
2,4,5-T	93-76-5		10		_	_	_	_
Talc; see Silicates								
Tantalum, metal and oxide dust	7440-25-7	_	5		_			
TEDP (Sulfotep)	3689-24-5		0.2		_			X
Tellurium and compounds (as Te)	13494-80-9		0.1					
Tellurium hexafluoride (as Te)		0.02	0.2					
Temephos	3383-96-8	0.02	0.2					
Total dust	_		10					
Respirable fraction			5					
TEPP	107-49-3	L	0.05	$\vdash$				X
Terphenyls	26140-60-3		0.03			0.5	5	^
1,1,1,2-Tetrachloro-2,2-		500	— 4170			0.5	5	
difluoroethane	76-11-9	500	4170					
1,1,2,2-Tetrachloro-1,2-	76-12-0	500	4170					
difluoroethane	76-12-0	500	4170					
1,1,2,2-Tetrachloroethane	70.24.5	4	7					V
, , ,	79-34-5	1	7				<del></del>	X
Tetrachoroethylene; see								
Perchloroethylene								
Tetrachloromethane; see Carbon tetrachloride								
	4005.00.0		2					V
Tetrachloronaphthalene	1335-88-2		2					X X
Tetraethyl lead (as Pb)	78-00-2		0.075		705			Χ
Tetrahydrofuran	109-99-9	200	590	250	735			<u> </u>
Tetramethyl lead, (as Pb)	75-74-1	_	0.75					X
Tetramethyl succinonitrile	3333-52-6	0.5	3					Χ
Tetranitromethane	509-14-8	1	8			_		
Tetrasodium pyrophosphate	7722-88-5		5			_		
	479-45-8		1.5			_		Χ
nitramine)								
Thalium, Soluble compounds (as TI)			0.1					Χ
4,4'-Thiobis(6-tert, Butyl-m-cresol)	96-69-5	_	_	_			_	_
Total dust		_	10					_
Respirable fraction		$\vdash$	5	$\vdash$				
Thioglycolic acid	68-11-1	1	4	$\vdash$				Χ
Thionyl chloride	7719-09-7		_	$\vdash$		1	5	_
Thiram	137-26-8	<u> </u>	5				_	_
Tin, inorganic compounds (except	7440-31-5	$\vdash$	2	$\vdash$	_	_	_	_
oxides) (as Sn)								
Tin, organic compounds (as Sn)	7440-31-5		0.1		_			Χ
Tin oxide (as Sn)	21651-19-4	<u> </u>	2	<u> </u>			<u> </u>	
Titanium dioxide	13463-67-7	$\vdash$		<u> </u>				
Total dust			10	i i		_		_
Toluene	108-88-3	100	375	150	580	_		
Toluene-2,4-diisocynate (TDI)	584-84-9	0.005	0.04	0.02	0.15			
m-Toluidine	108-44-1	2	9			_		X
		1			1			

Rule 0800-01-0107, continued)								
o-Toluidine	95-53-4	5	22	_	_	_	_	X
p-Toluidine	106-49-0	2	9	_	_	_		X
Toxaphene; see Chlorinated								
camphene								
Tremolite; see Silicates								
Tributyl phosphate	126-73-8	0.2	2.5	_	_	_	_	_
Trichloroacetic acid	76-03-9	1	7	_	_	_	_	_
1,2,4-Trichlorobenzene	120-82-1	_	_	_	_	5	40	_
1,1,1-Trichloroethane; see Methyl								
chloroform								
1,1,2-Trichloroethane	79-00-5	10	45	_		_	_	Χ
Trichloroethylene	79-01-6	50	270	200	1080	_	_	_
Trichloromethane; see Chloroform								
Trichloronaphthalene	1321-65-9		5	_				X
1,2,3-Trichloropropane	96-18-4	10	60					
1,1,2-Trichloro-1,2,2-trifluoroethane		1000	7600	1250	9500			
Triethylamine	121-44-8	10	40	15	60			
Trifluorobromomethane	75-63-8	1000	6100					
Trimellitic anhydride	552-30-7	0.005	0.04	_		<u>L</u>		
Trimethylamine	75-50-3	10	24	15	36			
Trimethyl benzene			125	13	30			
	25551-13-7			_				_
Trimethyl phosphite	121-45-9	2	10	_			_	
2,4,6-Trinitrophenyl; see Picric acid								
2,4,6-Trinitrophenylmethyl nitamine;								
see Tetryl				-				
2,4,6-Trinitrotoluene (TNT)	118-96-7		0.5		_	_		X
Triorthocresyl phosphate	78-30-8		0.1		_			Χ
Triphenyl amine	603-34-9		5	_		_	_	_
Triphenyl phosphate	115-86-6		3					
Tungsten (as W	7440-33-7							
Insoluble compounds			5	_	10	_	_	_
Soluble compounds	_	_	1	_	3	_	_	_
Turpentine	8006-64-2	100	560		_			_
Uranium (as U)	7440-61-1	_	_	_			_	_
Soluble compounds	_	_	0.05	_		_	_	
Insoluble compounds	_	_	0.2	_	0.6		_	_
n-Valeraldehyde	110-62-3	50	175	_		_	_	_
Vanadium fume and	1314-62-1	_	_	_	_	_		
Respirable dust (as V2O5)	_	_	0.05	_	_		_	_
Vegetable oil mist	_							
Total dust	_	_	15	_				_
Respirable fraction	_		5					
Vinyl acetate	108-05-4	10	30	20	60			
Vinyl benzene; see Styrene	100 00 1	1.0	-		00			
Vinyl bromide	593-60-2	5	20					
Vinyl chloride; see 29 CFR	75-01-4			$\vdash$		$\vdash$		
1910.1017								
Vinyl cyanide; see Acrylonitrile		+	+	+		+	<u> </u>	-
Vinyl cyclohexene dioxide	106-87-6	10	60	L		L		X
Vinylidene chloride (1,1-Dichloro-	75-35-4	+	4			E		_
ethylene)	7 3-35-4	1	1					_
	24004	100	490	1		+		1
Vinyl toluene	24994		480	400	1000	$\vdash$		
VM & P Naphtha	8032-32-4	300	1350	400	1800			

81-81-2		0.1					
_		5					
<u> </u>		5		10	_	_	_
_		2.5			_		_
1330-20-7	100	435	150	655	_		_
1477-55-0						0.1	X
1300-73-8	2	10					X
7440-65-5		1					
7646-85-7	_	1		2	_	_	
Varies with	_	_	_	_	_	0.1	
compound							
1314-13-2		5		10			
1314-13-2		_					
		10					
_	_	5		_	_	_	
557-05-1							
	_	10					_
		5					
7440-67-7		5		10			

Authority: T.C.A. §§ 4-3-1411, 50-3-105, 50-3-201, and 50-3-202. Administrative History: Original rule filed January 15, 1977; effective February 13, 1977. Repeal and new rule filed September 15, 1977; effective October 14, 1977. Repeal and new rule filed March 31, 1983; effective June 15, 1983. Repeal and new rule filed August 13, 1999; effective December 29, 1999. Repeal and new rule filed January 11, 2002; effective May 31, 2002. Amendment filed April 21, 2004; August 27, 2004. Amendment filed November 16, 2006; effective date March 30, 2007.