

CHEMICAL REPORT FOR 000050-00-0

Chemical Names

- *Formaldehyde (gas)
- Formaldehyde
- Formaldehyde
- Formaldehyde
- Formaldehyde (concentration ?37% by weight)
- Formaldehyde (gas)
- Formaldehyde (solution)
- Formaldehyde solutions (with not less than 10% and less than 25% formaldehyde), see Aviation regulated liquid, n.o.s. or Other regulated substances, liquid, n.o.s.
- Formaldehyde solutions, flammable
- Formaldehyde solutions, with not less than 25 percent formaldehyde
- Formalin
- Formalin, see Formaldehyde, solutions
- Methylene oxide

Regulatory Summary

- | | |
|--|---|
| <input checked="" type="checkbox"/> CAA HAPs | <input checked="" type="checkbox"/> Illinois Toxic Air Contaminants List |
| <input checked="" type="checkbox"/> NESHAP Subpart F SOCOMI Chemicals | <input checked="" type="checkbox"/> Louisiana Toxic Air Pollutant Minimum Emissions Rate - Table 51.1 |
| <input checked="" type="checkbox"/> NESHAP Subpart F SOCOMI Organic HAPs | <input checked="" type="checkbox"/> Louisiana Toxic Air Pollutant Ambient Air Standards - Table 51.2 |
| <input checked="" type="checkbox"/> NESHAP Subpart JJ Wood Furniture Manufacturing Volatile HAPs | <input checked="" type="checkbox"/> Maine Hazardous Air Pollutants -- Reporting Thresholds |
| <input checked="" type="checkbox"/> Clean Water Act Hazardous Substances | <input checked="" type="checkbox"/> Maryland Toxic Air Pollutants for Existing Sources |
| <input checked="" type="checkbox"/> RCRA Hazardous Wastes: P and U Codes | <input checked="" type="checkbox"/> Maryland Class I Toxic Air Pollutants |

- CAA Accidental Release Prevention/RMP Substances
- CERCLA Hazardous Substances
- SARA Extremely Hazardous Substances
- SARA Toxic Release Chemicals
- DHS Chemicals of Interest
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- OSHA Permissible Exposure Limits (PEL): Table Z-2
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- Massachusetts Substance List
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- Nebraska Hazardous Air Pollutant Reporting Levels
- Nevada Highly Hazardous Substances
- New Jersey RTK Hazardous Substances
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- North Carolina TAP Emissions Rates Requiring a Permit
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- Tennessee Permissible Exposure Limits (PEL)
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- Vermont Hazardous Air Contaminant Ambient Air Standards
- Vermont Permissible Exposure Limits (PEL)
- Washington Toxic Air Pollutants
- Washington Permissible Exposure Limits for Airborne Contaminants
- West Virginia Toxic Air Pollutant List

- Hawaii Permissible Exposure Limits (PEL) - Exhibit A
- Wisconsin Hazardous Air Contaminants Table A
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FEDERAL & STATE LISTS

Air

CAA HAPs

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Alternative Name:

Regulatory Reference:

NESHAP Subpart F SOCFI Chemicals

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Group: I

NESHAP Subpart F SOCFI Organic HAPs

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Regulatory Reference:

NESHAP Subpart JJ Wood Furniture

Manufacturing Volatile HAPs

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Regulatory Reference:

California Toxic Air Contaminants

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Threshold Determination: None identified

Connecticut Hazard Limiting Values - Table 29-2

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

HLV 8-hr (ug/m3): 12

HLV 30-min (ug/m3): 60

HLV 8-hr Vol. (ppmv): 0.01

HLV 30-min Vol. (ppmv): 0.05

Idaho Toxic Air Pollutants

CAS Number: 000050-00-0

Chemical Name: Formaldehyde

Reference Occupational Exposure Level
(58.01.01.585) (mg/m³): --

Emissions Screening Level (58.01.01.585)
(lb/hr): --

Acceptable Ambient Concentrations (24-hr
avg) (58.01.01.585) (mg/m³): --

Unit Risk Factor from the US EPA
(58.01.01.586): 1.3E-05

Emissions Screening Level (58.01.01.586)
(lb/hr): 5/1E-04

Acceptable Ambient Concentrations for
Carcinogens (annual avg) (58.01.01.586)
(µg/m³): 7.7E-02

Louisiana Toxic Air Pollutant Ambient Air
Standards - Table 51.2

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Class: I

Ambient Air Standard 8-hr avg (µg/m³ *): --

Ambient Air Standard annual avg (µg/m³ **):
7.69

Notes: --

Maine Hazardous Air Pollutants -- Reporting
Thresholds

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Pollutant Code: 50000

Reporting Threshold (lbs): 1000

Reporting Threshold (tons): 0.5

Illinois Toxic Air Contaminants List

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Comments: *

Category: B1

Louisiana Toxic Air Pollutant Minimum
Emissions Rate - Table 51.1

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Minimum Emissions Rate (lbs/yr): 260

Class: I

Notes:

Maryland Class I Toxic Air Pollutants

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Carcinogen Status: Probable Human
Carcinogen

Maryland Toxic Air Pollutants for Existing Sources

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Compliance Date: 7-1-90;

Regulatory Reference: A

North Carolina TAP Emissions Rates Requiring a Permit

Chemical Name: formaldehyde

CAS Number: 000050-00-0

Carcinogens (lb/yr), Obstructed: --

Chronic Toxicants (lb/day), Obstructed: --

Acute Systemic Toxicants (lb/hr), Obstructed: --

--

Acute Irritants (lb/hr), Obstructed: 0.04

Carcinogens (lb/yr), Unobstructed: --

Chronic Toxicants (lb/day), Unobstructed: --

Acute Systemic Toxicants (lb/hr),

Unobstructed: --

Acute Irritants (lb/hr), Unobstructed: 0.16

Regulatory Reference:

Ohio Toxic Air Contaminants

Chemical Name: formaldehyde (gas)

CAS Number: 000050-00-0

Nebraska Hazardous Air Pollutant Reporting Levels

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

VOC: Yes

Reporting Level (lbs/yr): 1,000

Regulatory Reference:

North Carolina Toxic Air Pollutants

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Annual (Carcinogens) (mg/m³): --

24-hour (Chronic Toxicants) (mg/m³): --

1-hour (Acute Systemic Toxicants) (mg/m³): --

--

1-hour (Acute Irritants) (mg/m³): 0.15

Oklahoma Toxic Air Contaminant Maximum Acceptable Ambient Concentrations

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

MAAC (ppb): 7

MAAC (µg/m³): 8

Averaging Time: 24-hour

Carcinogen Class: Carcinogen

Rhode Island Toxic Air Contaminants
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
AAL 1-hr Avg ($\mu\text{g}/\text{m}^3$): 50
AAL 24-hr Avg ($\mu\text{g}/\text{m}^3$): 40
AAL Annual Avg ($\mu\text{g}/\text{m}^3$): 0.08
AAL w/LAER 1-hr Avg ($\mu\text{g}/\text{m}^3$): 50
AAL w/LAER 24-hr Avg ($\mu\text{g}/\text{m}^3$): 40
AAL w/LAER Annual Avg ($\mu\text{g}/\text{m}^3$): 0.8
Minimum Quantity (lbs/yr): 9
Regulatory Reference:

Vermont Hazardous Air Contaminants
Chemical Name: Formaldehyde
CAS Number: 000050-00-0

West Virginia Toxic Air Pollutant List
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
BAT Threshold (pounds/year): 1,000

Vermont Hazardous Air Contaminant
Ambient Air Standards
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
HAAS ($\mu\text{g}/\text{m}^3$): 0.078
Action Level (lb/8-hr): 0.0065
Category: I

Washington Toxic Air Pollutants
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Averaging Period: year
ASIL ($\mu\text{g}/\text{m}^3$): 0.167
SQER (lb/avg. period): 32
DeMinimis (lb/avg. period): 1.6

Wisconsin Hazardous Air Contaminants
Table A
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Emissions Threshold from Stacks
Emissions Threshold from Stacks 25 to
Emissions Threshold from Stacks 40 to
Emissions Threshold from Stacks 75+ ft
(lbs/hrh or lbs/yr): 4712
Ambient Air Standard (per time period in
TIME PERIOD column, micrograms/cubic
meter):
Time Period for Standard and Threshold:
Annual
Control Requirement: BACT

Water

Clean Water Act Hazardous Substances

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Category: B

RQ in pounds (kilograms): 100 (45.4)

Waste

RCRA Hazardous Wastes: P and U Codes

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

RCRA Code: U122

Emergency Planning/Community Right to Know

CAA Accidental Release Prevention/RMP
Substances

Chemical Name: Formaldehyde (solution)

CAS Number: 000050-00-0

Threshold Quantity (lbs): 15,000

Basis for Listing: b

CERCLA Hazardous Substances

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Statutory Code: 1,3,4

RCRA Code: U122

Reportable Quantity in lbs (kg): 100 (45.4)

Regulatory Reference:

DHS Chemicals of Interest
Chemical Name: Formaldehyde (solution)
CAS Number: 000050-00-0
Release Minimum Concentration (%): 1
Release Screening Threshold Quantities (lbs): 15,000
Theft Minimum Concentration (%):
Theft Screening Threshold Quantities (lbs unless otherwise noted):
Sabotage Minimum Concentration (%):
Sabotage Screening Threshold Quantities):
Security Issue Release - Toxic: X
Security Issue Release - Flammables:
Security Issue Release - Explosives:
Security Issue Theft - CWI/CWP:
Security Issue Theft - WME:
Security Issue Theft - EXP/IEDP:
Security Issue Sabotage/Contamination:

SARA Toxic Release Chemicals
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Reporting Threshold: Standard
Regulatory Reference:
Effective Date: 1/1/1987 12:00:00 AM

Nevada Highly Hazardous Substances
Chemical Name: Formaldehyde (concentration ?37% by weight)
CAS Number: 000050-00-0
Threshold Quantity (lbs): 1,000
2 Release Quantity (lbs): 100
2 Release Source: 1 & 2
Regulatory Reference: Note 1 & 2
Toxic (T) or Flammable (F): T
Toxic Endpoint (mg/L): 0.012

SARA Extremely Hazardous Substances
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Threshold Planning Quantity (lbs): 500
Reportable Quantity (lbs): 100

Delaware List of Chemicals and RQs
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
State Requirement: --
DRQ (pounds, unless otherwise specified): 100

New Jersey RTK Hazardous Substances
Substance Number: 0946
Chemical Name: formaldehyde
CAS Number: 000050-00-0
DOT ID: 1198
Special Health Hazard Codes: CA, CO, MU, F4
Sources: 1, 2, 3, 4, 5, 6, 7, 8, 15, 17, 18, 19, 20, 21, 22

New Jersey TCPA EHS List
Chemical Name: *Formaldehyde (gas)
Table: I Part A
Group: II
NJ Threshold (lbs): 175
EPA Threshold (lbs): --
CAS Number: 000050-00-0
Basis for Listing: --

New York List of Hazardous Substances
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Air RQ (lbs): 100
Land/Water RQ (lbs): 1
Notes: --

Pennsylvania Hazardous Substances
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Code: ES

DOT

DOT Hazardous Materials
Hazardous Material Description and Proper
Shipping Names (2): Formaldehyde solutions
(with not less than 10% and less than 25%
formaldehyde), see Aviation regulated liquid,
n.o.s. or Other regulated substances, liquid,
n.o.s.
CAS Number: 000050-00-0
Symbols (1): --
Hazard Class or Division (3): --
DOT ID (4): --
Packing Group (5): --
Label Codes (6): --
Special Provisions (7): --
Packaging - Exceptions (8A): --
Packaging - Nonbulk (8B): --
Packaging - Bulk (8C): --
Qty. Limits - Passenger Aircraft/Rail (9A): --
Qty. Limits - Cargo Aircraft Only (9B): --
Vessel Stowage - Location (10A): --
Vessel Stowage - Other (10B): --

OSHA Safety/Health

IARC Carcinogens

CAS Number: 000050-00-0
Chemical Name: Formaldehyde
IARC Classification: 1
Volume: Sup 7, 62, 88, 100F
Year: 2012
Additional Information:

NIOSH Recommended Exposure Limits

Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Carcinogen: Ca
10-hour TWA: 0.016 ppm
STEL: --
Ceiling: (C) 0.1 ppm [15-min]
Notes: See Appendix A

OSHA Permissible Exposure Limits (PEL):

Table Z-1
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
PEL (ppm): --
PEL (mg/m³): --
Skin Designation: --
Notes: See 29 CFR 1910.1048

PSM Highly Hazardous Chemicals

Chemical Name: Formalin
CAS Number: 000050-00-0
Threshold Quantity (lbs): 1000

NIOSH IDLH Concentrations

Chemical Name: Formaldehyde
CAS Number: 000050-00-0
IDLH: 20 ppm

NTP Carcinogens

Chemical Name: Formaldehyde
CAS Number: 000050-00-0
NTP carcinogen listing status: Known
Notes:

OSHA Permissible Exposure Limits (PEL):

Table Z-2
Chemical Name: Formaldehyde
CAS Number: 000050-00-0
PEL (8-hour TWA): --
Acceptable Ceiling Concentration: --
Max. Peak Concentration: --
Max. Peak Duration: --
Notes: See 29 CFR 1910.1048

California Hazardous Substance List

Chemical Name: Formaldehyde
CAS Number: 000050-00-0
Source: 1,2,3
Footnotes: --

California Permissible Exposure Limits (PEL)

CAS Number: 000050-00-0

Chemical Name: Formaldehyde

Skin:

Notes: see Section 5217

PEL (ppm): 0.75

PEL (mg/m3): --

Ceiling:

STEL (ppm): 2

STEL (mg/m3): --

Synonyms:

Connecticut Permissible Exposure Limits
(public sector only)

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

PEL (ppm):

PEL (mg/m3):

STEL (ppm):

STEL (mg/m3):

Ceiling (ppm):

Ceiling (mg/m3):

Skin designation:

Notes: see 1910.1048; see Table Z-2 for operations or sectors excluded from 1910.1048 or for which limit(s) is (are) stayed

Hawaii Permissible Exposure Limits (PEL) -
Exhibit A

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

PEL (ppm):

PEL (mg/m3):

STEL (ppm):

STEL (mg/m3):

Ceiling (ppm):

Ceiling (mg/m3):

Skin designation:

Notes: See 1910.1048

Massachusetts Substance List

CAS Number: 000050-00-0

Chemical Name: Formaldehyde

Codes: 1,2,3,4,5,6,7 *E*C* F6

Michigan Permissible Exposure Limits (PEL)

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

PEL (ppm): 0.75

PEL (mg/m3): 0.9

STEL (ppm): 2

STEL (mg/m3): 2.5

Ceiling (ppm):

Ceiling (mg/m3):

Skin designation:

Notes: See OH Part 306, R 325.51451 to R 325.51477

Tennessee Permissible Exposure Limits (PEL)

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

TWA (ppm): --

TWA (mg/m3): --

STEL (ppm): --

STEL (mg/m3): --

Ceiling (ppm): --

Ceiling (mg/m3): --

Skin Designation: --

Notes: see 29 CFR 1910.1048

Washington Permissible Exposure Limits for Airborne Contaminants

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

8-Hour Time-Weighted Average: 0.75 ppm

Short-Term Exposure Limit: 2 ppm

Ceiling:

Skin Absorption:

Minnesota Hazardous Substances

Chemical Name: Formaldehyde

Carcinogen: Y

Synonym:

CAS Number: 000050-00-0

Codes: ANORT

Vermont Permissible Exposure Limits (PEL)

Chemical Name: Formaldehyde

CAS Number: 000050-00-0

Transitional TWA (ppm): --

Transitional TWA (mg/m3): See OSHA Table Z-2

Transitional Skin Designation: --

Final TWA (ppm): --

Final TWA (mg/m3): --

Final STEL (ppm): --

Final STEL (mg/m3): --

Final Ceiling (ppm): --

Final Ceiling (mg/m3): --

Final Skin Designation: --

Notes: see 29 CFR 1910.1048

TSCA/Chemicals

TSCA Chemical Substance Inventory

CAS Number: 000050-00-0

Chemical Name: Formaldehyde

Submitter: Formaldehyde

Chem. Subdef.: --

Former CAS: 8005-38-7; 8006-07-3; 8013-

13-6; 112068-71-0; 1053659-79-2; 1156543-

56-4; 1158237-02-5; 1227476-28-9;

1416946-65-0; 1609158-91-9

Formula: CH₂O

UVCB: --

EPA Flag: --

California Proposition 65

Chemical Name: Formaldehyde (gas)

Type of Toxicity: cancer

Listing Mechanism: SQE

CAS Number: 000050-00-0

Date Listed: 1/1/1988 12:00:00 AM

NSRL or MADL (micrograms/day): 40

Synonyms: