

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** Formaldehyde Solution

**Other means of identification**

**Product No.:** 2109, 2108, 2106, 5016, 5014

**Recommended use and restriction on use**

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

Company Name: Avantor Performance Materials, Inc.  
Address: 3477 Corporate Parkway, Suite 200  
Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax:  
Contact Person: Environmental Health & Safety  
e-mail: info@avantormaterials.com

**Emergency telephone number:**

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

## 2. Hazard(s) identification

**Hazard classification**

**Physical hazards**

Flammable liquids Category 3

**Health hazards**

Acute toxicity (Oral) Category 3

Skin corrosion/irritation Category 2

Carcinogenicity Category 1A

**Unknown toxicity**

Acute toxicity, oral 0 %

Acute toxicity, dermal 32 %

Acute toxicity, inhalation, vapor 100 %

Acute toxicity, inhalation, dust or mist 100 %

**Environmental hazards**

Acute hazards to the aquatic environment Category 3

**Unknown toxicity**

Chronic hazards to the aquatic environment 47 %

**Label elements**

**Hazard symbol:**



**Signal word:** Danger

**Hazard statement:** Flammable liquid and vapor.  
Toxic if swallowed, in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
May cause cancer.  
Causes damage to organs.  
May cause respiratory irritation.  
Causes damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life.

**Precautionary statement**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe dust/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

## Mixtures

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
FORMALDEHYDE		50-00-0	37%
METHYL ALCOHOL		67-56-1	10 - 15%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

<b>General information:</b>	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
<b>Ingestion:</b>	Drink a few glasses of water or milk. Never give liquid to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
<b>Inhalation:</b>	Move to fresh air. Call a physician or poison control center immediately. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration.
<b>Skin contact:</b>	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Call a physician or poison control center immediately. If skin irritation or an allergic skin reaction develops, get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

### Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	Causes severe skin and eye burns. Toxic if swallowed. May cause allergic skin reaction. Toxic in contact with skin. Toxic if inhaled.
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### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Treat symptomatically.
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## 5. Fire-fighting measures

<b>General fire hazards:</b>	Flammable liquid and vapor.
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### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Water spray, foam, dry powder or carbon dioxide.
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<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
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<b>Specific hazards arising from the chemical:</b>	Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.
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### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
<b>Special protective equipment for fire-fighters:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment.
<b>Methods and material for containment and cleaning up:</b>	Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
<b>Notification Procedures:</b>	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
<b>Environmental precautions:</b>	Do not contaminate water sources or sewer. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use explosion-proof ventilation equipment. Use only non-sparking tools. Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep container tightly closed. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Keep from freezing.

## 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
FORMALDEHYDE	Ceiling	0.3 ppm	US. ACGIH Threshold Limit Values (2011)
	REL	0.016 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceil_Time	0.1 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	0.75 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) (02 2006)
	STEL	2 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) (02 2006)
	OSHA_ACT	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) (02 2006)
	TWA	0.75 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	2 ppm	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
METHYL ALCOHOL	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm 325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	200 ppm 260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	200 ppm 260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	250 ppm 325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

#### Biological limit values

Chemical identity	Exposure Limit values	Source
METHYL ALCOHOL (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL (2011)

#### Appropriate engineering controls

No data available.

#### Individual protection measures, such as personal protective equipment

##### General information:

Good general ventilation (typically 10 air changes per hour) 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. An eye wash and safety shower must be available in the immediate work area.

##### Eye/face protection:

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

##### Skin protection

##### Hand protection:

Chemical resistant gloves

##### Other:

Wear suitable protective clothing.

##### Respiratory protection:

In case of inadequate ventilation use suitable respirator. Respirator type: Chemical respirator with organic vapor cartridge and full facepiece.

**Hygiene measures:**

Provide eyewash station and safety shower. 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. Do not get this material in contact with skin. Do not get in eyes. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

**Appearance**

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless

<b>Odor:</b>	Pungent
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	3.0
<b>Melting point/freezing point:</b>	-15 °C
<b>Initial boiling point and boiling range:</b>	96 °C
<b>Flash Point:</b>	60 °C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.

**Upper/lower limit on flammability or explosive limits**

<b>Flammability limit - upper (%):</b>	73 %(V)
<b>Flammability limit - lower (%):</b>	7.0 %(V)
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.

<b>Vapor pressure:</b>	0.17 kPa
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	1.08 (20 °C)

**Solubility(ies)**

<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.

<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	300 °C
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Heat, sparks, flames. Contact with incompatible materials.
<b>Incompatible materials:</b>	Strong oxidizing agents. Alkalies. Acids.
<b>Hazardous decomposition products:</b>	Oxides of Carbon. Formaldehyde.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion:</b>	Toxic if swallowed.
<b>Inhalation:</b>	Toxic if inhaled. Irritating to respiratory tract.
<b>Skin contact:</b>	Toxic in contact with skin. Causes skin burns. May cause an allergic skin reaction.
<b>Eye contact:</b>	Causes serious eye damage.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	ATEmix (): 270.27 mg/kg
<b>Dermal</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s):</b>	
METHYL ALCOHOL	LD 50 (Rabbit): 15,800 mg/kg

<b>Inhalation</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s):</b>	
FORMALDEHYDE	LC 50 (Rat, 4 h): 0.48 mg/l
<b>Specified substance(s):</b>	
METHYL ALCOHOL	LC 50 (Rat, 6 h): 87.5 mg/l

<b>Repeated dose toxicity</b>	
<b>Product:</b>	No data available.

<b>Skin corrosion/irritation</b>	
<b>Product:</b>	Causes severe skin burns and eye damage.

<b>Serious eye damage/eye irritation</b>	
<b>Product:</b>	Causes serious eye damage.

<b>Respiratory or skin sensitization</b>	
<b>Product:</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

<b>Carcinogenicity</b>	
<b>Product:</b>	May cause cancer.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

FORMALDEHYDE	Overall evaluation: 1. Carcinogenic to humans.
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#### US. National Toxicology Program (NTP) Report on Carcinogens:

FORMALDEHYDE	Known To Be Human Carcinogen.
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#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

FORMALDEHYDE	No data available.
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## Germ cell mutagenicity

### In vitro

**Product:** No mutagenic components identified

### In vivo

**Product:** No mutagenic components identified

## Reproductive toxicity

**Product:** No components toxic to reproduction

## Specific target organ toxicity - single exposure

**Product:** Respiratory System, Central nervous system. - Causes damage to organs.

## Specific target organ toxicity - repeated exposure

**Product:** Eyes., Central nervous system. - Causes damage to organs through prolonged or repeated exposure.

## Aspiration hazard

**Product:** Not classified

## Other effects:

Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.

# 12. Ecological information

## Ecotoxicity:

### Acute hazards to the aquatic environment:

#### Fish

**Product:** No data available.

#### Specified substance(s):

FORMALDEHYDE LC 50 (Fathead minnow (Pimephales promelas), 96 h): 22.61 - 25.71 mg/l Mortality  
LC 50 (Bluegill (Lepomis macrochirus), 96 h): 25.4 - 34 mg/l Mortality

METHYL ALCOHOL LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 18,000 - 20,000 mg/l Mortality  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 28,200 mg/l Mortality

#### Aquatic invertebrates

**Product:** No data available.

#### Specified substance(s):

FORMALDEHYDE EC 50 (Water flea (Daphnia magna), 48 h): 29 mg/l Intoxication

METHYL ALCOHOL EC 50 (Water flea (Daphnia magna), 48 h): 20,450 - 29,350 mg/l Intoxication  
LC 50 (Water flea (Daphnia magna), 48 h): 2,461 - 4,395 mg/l Mortality

### Chronic hazards to the aquatic environment:

#### Fish

**Product:** No data available.

#### Aquatic invertebrates

**Product:** No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

## Persistence and degradability

### Biodegradation

SDS\_US - SDSMIX000561



**Product:** There are no data on the degradability of this product.

**BOD/COD ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF)**

**Product:** No data available on bioaccumulation.

**Partition coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

FORMALDEHYDE Log Kow: 0.35

METHYL ALCOHOL Log Kow: -0.77

**Mobility in soil:** The product is water soluble and may spread in water systems.

**Other adverse effects:** Harmful to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Do not allow to enter drains, sewers or watercourses.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**DOT**

UN number:	UN 1198
UN proper shipping name:	Formaldehyde solutions, flammable
Transport hazard class(es)	
Class(es):	3, 8
Label(s):	3, 8
Packing group:	III
Marine Pollutant:	No

**IMDG**

UN number:	UN 1198
UN proper shipping name:	FORMALDEHYDE SOLUTION, FLAMMABLE
Transport hazard class(es)	
Class(es):	3, 8
Label(s):	3, 8
EmS No.:	F-E, S-C
Packing group:	III
Marine Pollutant:	No

**IATA**

UN number:	UN 1198
Proper Shipping Name:	Formaldehyde solution, flammable
Transport hazard class(es):	
Class(es):	3, 8
Label(s):	3, 8
Marine Pollutant:	No
Packing group:	III

## 15. Regulatory information

### US federal regulations

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

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

FORMALDEHYDE

#### CERCLA Hazardous Substance List (40 CFR 302.4):

FORMALDEHYDE Reportable quantity: 100 lbs.  
METHYL ALCOHOL Reportable quantity: 5000 lbs.

#### Superfund amendments and reauthorization act of 1986 (SARA)

##### Hazard categories

☒ Acute (Immediate) ☒ Chronic (Delayed) ☒ Fire ☐ Reactive ☐ Pressure Generating

#### SARA 302 Extremely hazardous substance

Chemical identity	RQ	Threshold Planning Quantity
FORMALDEHYDE	100 lbs.	500 lbs.

#### SARA 304 Emergency release notification

Chemical identity	RQ
FORMALDEHYDE	100 lbs.
METHYL ALCOHOL	5000 lbs.

#### SARA 311/312 Hazardous chemical

Chemical identity	Threshold Planning Quantity
FORMALDEHYDE	500 lbs
METHYL ALCOHOL	500 lbs

#### SARA 313 (TRI reporting)

Chemical identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
FORMALDEHYDE	10000 lbs	25000 lbs.
METHYL ALCOHOL	10000 lbs	25000 lbs.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

FORMALDEHYDE Reportable quantity: 100 lbs.

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

FORMALDEHYDE Threshold quantity: 15000 lbs

### US state regulations

#### US. California Proposition 65

FORMALDEHYDE Carcinogenic.  
METHYL ALCOHOL Developmental toxin. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

FORMALDEHYDE Listed  
METHYL ALCOHOL Listed

**US. Massachusetts RTK - Substance List**

FORMALDEHYDE	Listed
METHYL ALCOHOL	Listed

**US. Pennsylvania RTK - Hazardous Substances**

FORMALDEHYDE	Listed
METHYL ALCOHOL	Listed

**US. Rhode Island RTK**

FORMALDEHYDE	Listed
METHYL ALCOHOL	Listed

**Inventory Status:**

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Switzerland Consolidated Inventory:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

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

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

<b>Issue date:</b>	06-26-2014
<b>Revision date:</b>	No data available.
<b>Version #:</b>	1.0
<b>Further information:</b>	No data available.

**Disclaimer:**

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