D.B. WESTERN, INC. - TEXAS

Chemicals and Polymers

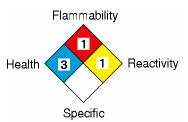


Material Safety Data Sheet (MSDS)

DBWT No. Formaldehyde Solution 004

Effective Date: 07-12-04

DBWT PRODUCT CODE: F36A00,F37E00 – F37E02, F37F00



Section 1. Chemical Product and Company Identification		
Product / Trade Name	DBWT Product Code: F36A00,F37E00 – F37E02, F37F00; Formaldehyde, Aqueous; Methyleneoxide	
Synonyms:	solution; Methyl aldehyde solution; ASTM D2378	
Chemical Family:	Aldehyde	
Molecular Formula:	CH_2O	
Manufacturer:	D.B. Western, Inc. – Texas	
	12511 Strang Road	
	LaPorte,TX 77572	
	Non-Emergency Phone ONLY: 1-541-756-0533	
Emergency Phone (24 hou	<u>urs):</u> CHEMTREC 1-800-424-9300	

Section 2. Composition	Section 2. Composition and Information on Ingredients					
Hazardous Components	CAS No.	% by Weight	NIOSH No.	STCC Code	ACGIH TLV	OSHA PEL
Formaldehyde	50-00-0	34.0 – 37.5	LP8925000	496 6365	CEIL: 0.3 ppm	TWA: 0.75 ppm STEL: 2 ppm
Methanol	67-56-1	10.0 - 15.0	PC1400000	490 9230 490 9237 490 9377 490 9378 490 9379 490 9380 490 9381 491 0499	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm STEL: 250 ppm

[skin] This notation indicates that absorption through skin can contribute significantly to overall exposure.

TWA's are 8 hour exposures unless otherwise noted. STEL's are 15 minute exposures unless other wise noted.

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Section 3. Hazards Iden	ntification				
HMIS	Health Hazard3 (High)Note:Personal protective equipment (PPE) is related to conditionsFire Hazard1 (Slight)of use. Determination of PPE is the responsibility of theReactivity1 (Slight)employer. Refer to Section 8 (Personal Protection andChronic - See Section 11Exposure Controls) of this MSDS for recommendations.				
HEALTH – SIGNAL WORD	WARNING! This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of OSHA 29 CFR 1910.1200"Hazard Communication" Standard.				
Emergency Overview	Colorless, clear to slightly hazy liquid; pungent, irritating odor.				
	CAUTION! Combustible liquid. Keep away from heat, sparks, and flames. Vapors can travel to a source of ignition and flash back. Unvented containers may develop pressure on prolonged exposure to heat. Harmful if inhaled. Inhalation of vapors of mist can cause severe respiratory irritation. May be harmful if absorbed through skin. Eye and skin irritation or injury may result from exposure to this product. Vapors are extremely irritating to the eyes and mucous membranes. May cause allergic skin reaction. Harmful if swallowed. The NIOSH IDLH for Formaldehyde is: 20 ppm; and for Methanol it is: 6,000 ppm				
Potential Health Effects					
Eye contact:	Contact with liquid or mist can cause severe eye irritation or injury. Vapors released from product can cause severe eye irritation. Symptoms may include redness, watering, itching, swelling, or a burning sensation in the eyes.				
Skin Contact:	A prolonged single exposure can produce severe skin irritation or injury. Symptoms may include itching, scaling, cracking, reddening, or blistering at the site of contact. Exposure to this product may cause an allergic skin reaction. This product may be absorbed through the skin in harmful amounts.				
Inhalation:	This product may be toxic by inhalation. Inhalation of vapors or mist can cause severe respiratory irritation. Vapors released from product may be irritating to the nose, mouth, mucous membranes, throat, and lungs. Symptoms may include a burning sensation, coughing, shortness of breath, nausea, chest pain, or headaches. Can cause central nervous system depression. Severe over-exposure may produce lung damage, choking, unconsciousness, or death. Exposure may cause an allergic respiratory reaction in some individuals.				
Ingestion:	This product is orally toxic and may be harmful or fatal if swallowed. However, in normal industrial use, ingestion is not considered a probable route of exposure. May cause irritation or burns to mucous membranes, esophagus or GI tract characterized by nausea, vomiting, abdominal pain and/or diarrhea. Ingestion of this product may cause irreversible visual impairment or blindness.				
Chronic:	Formaldehyde may cause cancer based on animal data. Repeated or prolonged exposure to formaldehyde may cause skin sensitization, dermatitis, or other allergic reactions. The degree of sensitivity varies with individuals. This substance is known to the State of California to cause cancer. This product contains ingredients which may affect the following target organs: respiratory system , eyes , skin , nasopharyngeal cavity				
	See <u>Section 11</u> Toxicological Information for additional information.				

Section 4. First Aid	d Measures	
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if worn.	
	Hold eyelids apart and flush eyes with water for at least 15 minutes. Get immediate medical attention.	
Skin Contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water for a least 15	
	minutes. Get medical attention if irritation persists. Launder contaminated clothing and shoes before	
	reuse.	
Inhalation	Remove to fresh air immediately. Keep affected person warm and at rest in a half-upright position.	
	Get medical attention if necessary.	
	If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by	
	trained personnel. Get immediate medical attention.	
Ingestion	If conscious, immediately rinse mouth and induce vomiting, drink a tablespoon of salt in a glass of	
	warm water and repeat until vomit fluid is clear. Immediately contact poison control center or hospital	
	emergency room. Never give anything by mouth to an unconscious person.	

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Section 5. Fire and Explosion Data				
Fire Hazards	Corrosive liquid - Acid.			
Product Description	36.5% Formaldehyde	37% Formaldehyde	37% Formaldehyde	
	10.5% Methanol	12% Methanol	14% Methanol	
Flash Point	Approx. 140°F(60°C) [Pensky-Martens Closed Cup]	Approx. 133°F(56.1°C) [Pensky-Martens Closed Cup]	Approx. 131°F(55°C) [Pensky-Martens Closed Cup]	
Explosion Limits	Formaldehyde (gas) LC	OWER: 7 UPPER:	73	
(% by volume)	Methanol LC	OWER: 5.5 UPPER:	44	
Extinguishing Media	Use alcohol foam, carbon dioxide, dry chemical, or water spray.			
Fire Fighting	Use self contained breathing apparatus (SCBA) and complete protection for skin (PPE).			
Instructions	Use water spray to cool fire exposed containers and to absorb evolved gaseous formaldehyde.			
Combustion Products	Irritating fumes and toxic gases.			
Flammability	Corrosive Liquid, Class 8			
Classification:				
Special Hazards		travel to a source of ignition		
	• Unvented containers can build up pressure if exposed to heat (fire) and rupture violently.			
	 Irritating gaseous formaldehyde is evolved from hot solutions. 			
	• Water runoff can cause	environmental damage. Di	ike and collect water used	to fight fire.

Section 6. Acciden	tal Release Measures
Spill and Leak	Evacuate spill area.
Procedures	• Turn off all sources of heat or ignition. Empty containers may contain explosive vapors. DO NOT cut, puncture or weld on or nearby.
	Stop leak if you can do so without risk.
	 Ventilate area with explosion-proof equipment ONLY.
	 Use PPE appropriate to spill size and risk of exposure.
	• Confine spillage and absorb on earth, sand, or other non-combustible absorbent material.
	Uncontaminated spilled material may be reused.
	• Neutralize the area with sodium sulfite, sodium bisulfite, a dilute ammonia solution, or a dilute
	calcium hydroxide (lime) and flush with water. DO NOT flush to sewer.
	• Retain all contaminated liquid for removal and treatment. Absorb residue and discard according to
	Federal, State and Local Regulations.
	• If the spill is 1,000 lbs. or greater, call The National Response Center at 1 (800) 424-9346.
	(EPA hazardous waste number under RCRA for formaldehyde is U122, 40CRF261)

Section 7. Hand	ling and Storage			
Handling	Combustible liquid. Avo	• Combustible liquid. Avoid contact with eyes, skin, and clothing. Use proper protective equipment.		
	(see Section 8)			
	 Avoid breathing mist or 	vapor. Use only in a well	ventilated area.	
	 Ground and bond contain 	ners when transferring ma	terial. Use explosion-pro	oof pumps.
	 Unvented containers may 	y develop pressure. Open	with caution.	
	Wash thoroughly after har	andling.		
	 Eye wash stations and sa 	fety showers should be ea	sily accessible to areas w	here product is used.
Storage	Keep away from heat, sp	• Keep away from heat, sparks, open flame, or other sources of ignition.		
	 Do not store portable cor 	ntainers in direct sunlight.	_	
	 Keep containers closed v 	vhen not in use.		
	 For maximum storage lif 	e, store at temperatures b	etween:	
	36.5% Formaldehyde	37% Formaldehyde	37% Formaldehyde	
	10.5% Methanol	12% Methanol	14% Methanol	
	59 – 86°F (15 – 30°C)	59 – 86°F (15 – 30°C)	59 – 86°F (15 – 30°C)	
	 Protect from freezing. 			
	 Small containers should 	be protected from physica	ıl damage.	
	 Store away from incomp 	atible materials. (see Sect	ion 10)	

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Section 8. Personal Pro	otection and Exposure Controls		
Personal Protective	Eyes and face: Face shield with safety glasses or chemical safety goggles as cited in		
Equipment (PPE)	<u>29CFR 1910.1048</u> .		
	Skin: Butyl rubber or neoprene gloves. Wear additional protective clothing as appropriate to protect skin. Chemical resistant apron or other impervious clothing, full protective suit (rain-suit), Butyl rubber boots.		
	Respiratory: If feasible engineering controls do not prevent overexposure, a full-face respirator with cartridges approved by NIOSH/MSHA for formaldehyde may be used only when exposure levels are known to be within the unit's capability.		
	Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any situation where air purifying respirators may not provide adequate protection.		
	Observe the OSHA respirator regulations cited in <u>29 CFR 1910.134</u> .		
Engineering Controls	Use ventilation as necessary to keep exposure to airborne contaminants below the exposure limits		
	(TLV's and PEL's). Refer to <u>Section 2</u> .		
	Use explosion-proof ventilation equipment.		
	Detached storage is preferred.		
	Indoor storage areas should be sloped toward a drain or retention area.		

Section 9. Physical and	Section 9. Physical and Chemical Properties				
Product Description	36.5% Formaldehyde	37% Formaldehyde	37% Formaldehyde		
	10.5% Methanol	12% Methanol	14% Methanol		
Formaldehyde Content:	36.5 %	37.0 %	37.0 %		
Methanol Content:	11.0 % max.	13.0 % max.	15.0 % max.		
Specific Gravity:	Approx. 1.12 @ 25°C	Approx. 1.08 @ 25°C	Approx. 1.08 @ 25°C		
Density (pounds/gallon)	Approx. 9.3 @ 25°C	Approx. 9.01 @ 25°C	Approx. 9.01 @ 25°C		
Physical appearance:	Colorless, clear to slightly	Colorless, clear to slightly	Colorless, clear to slightly		
	hazy viscous liquid	hazy viscous liquid	hazy viscous liquid		
Odor:	Pungent, irritating	Pungent, irritating	Pungent, irritating		
pH (as is):	2.0 - 4.0	2.0 - 4.0	2.0 - 4.0		
Boiling Point:	Approx. 210°F	Approx. 210°F	Approx. 210°F		
	(98.9°C) @ 1 atm	(98.9°C) @ 1 atm	(98.9°C) @ 1 atm		
Vapor Pressure:	24 mm Hg @ 77°F(25°C)	24 mm Hg @ 77°F(25°C)	24 mm Hg @ 77°F(25°C)		
Vapor Density (air=1):	Approx. 1.03	Approx. 1.03	Approx. 1.03		
% Volatiles by Weight:	Approx. 100%	Approx. 100%	Approx. 100%		
Solubility in Water:	Soluble	Soluble	Soluble		
Evaporation Rate:	Similar to Water	Similar to Water	Similar to Water		

Section 10. Stability and	l Reactivity Data	
Chemical Stability	This product is stable under the recommended storage conditions.	
Conditions to Avoid	Avoid storage at temperatures above or below the recommended storage temperature. (see <u>Section 7</u>)	
Incompatibility with	Avoid contact or contamination with strong oxidizers, phenol, caustics, isocyanantes and inorganic	
Other Materials	acids, alkalies. (Reaction with hydrochloric acid may form bis-chloromethyl ether, an OSHA regulated carcinogen.)	
Hazardous	None known, but may include Carbon Monoxide and Carbon Dioxide. When heated to decomposition,	
Decomposition Products	Oxygen from the air can oxidize formaldehyde to formic acid. Formic Acid is corrosive!	
Hazardous	Hazardous polymerization will not occur.	
Polymerization		
Special Remarks	Prolonged storage or cooling may cause a non-hazardous self-polymerization to form	
	paraformaldehyde which precipitates out of solution. (Methanol content is added as a stabilizer.) The	
	contact of formaldehyde with strong bases such as caustic soda may cause a violent exothermic	
	reaction and splattering. This product <u>is</u> sensitive to static discharge.	

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Sectio	n 11. Toxicologic	al Information			
Eye	Formaldehyde: Methanol:	Contact with liquid or mist can cause severe eye irritation and/or injury. EYE: Rabbit, 750 ug (24 hours); severe irritation; Human, 4ppm (6 min) mild irritation EYE: Rabbit, moderate irritation;			
Derma	l Formaldehyde: Methanol:				
Inhala	tion Formaldehyde: Methanol:	This product may be toxic by inhalation. Inhalation of vapors or mist can cause serious burns or the entire respiratory tract. VAPOR (LD $_{50}$): Rat, 477 ppm (LC $_{LO}$): Cat, 400 ppm [2 hrs] (LD $_{50}$): Rat, 590 ppm [4 hrs] VAPOR (LD $_{50}$): Rat, 0.3g to 1 g /kg			
Oral	Formaldehyde: Methanol:	This product is orally toxic and may be harmful or fatal if swallowed. ORAL (LD _{LO}): Woman, 108 mg/kg (LD ₅₀): Rat, 800 mg/kg ORAL (LD ₅₀): Rat, 6.2-13 g/kg (LD ₅₀): Mouse, 400 mg/kg			
Sub ch	ronic Effects	Formaldehyde - Formaldehyde can cause watery eyes, burning sensations in the eyes and throat, nausea, and difficulty in breathing in some humans exposed at elevated levels (above 0.1 parts per million). High concentrations may trigger attacks in people with asthma. There is evidence that some people can develop a sensitivity to formaldehyde. It has also been shown to cause cancer in animals and may cause cancer in humans. Health effects include eye, nose, and throat irritation; wheezing and coughing; fatigue; skin rash; severe allergic reactions. Methanol - Exposure may occur from ambient air and during the use of solvents. Acute (short-term) or chronic (long-term) exposure of humans to methanol by inhalation or ingestion may result in blurred vision, headache, dizziness, and nausea.			
Chron	ic Effects Carcinogenicity	Formaldehyde - Epidemiological studies of workers exposed to formaldehyde have failed to consistently identify an association between formaldehyde exposure and cancer. In animal studies, rats and mice exposed to high levels of formaldehyde developed nasal cancer while hamster did not. These exposure levels are far above those expected to be found in the workplace. These animals studies provide an inference of carcinogenicity, this effect may require exposure to concentrations that humans could not tolerate. Formaldehyde is listed by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). The National Toxicology Program has included formaldehyde in its Annual Report on Carcinogens. OSHA regulates formaldehyde as a potential carcinogen for exposures at or exceeding 0.5 ppm. This substance is known to the State of California to cause cancer. Methanol – Methanol is not listed as a carcinogen by IARC, NTP, ACGIA or OSHA.			
	Target Organs	See <u>Section 3</u> .			

Section 12. Ecological Information		
Biodegradability	Product is easily biodegradable.	
Ecotoxicity	Formaldehyde may pollute water bearing stratum when penetrating into soil in large quantities. LC50 aq.: >10 mg/l (fish).	

Section 13. Disposal Considerations		
Waste Disposal	RECOVER FREE LIQUID. ABSORB RESIDUE AND DISPOSE OF IN ACCORDANCE WITH	
	LOCAL, STATE AND FEDERAL REGULATIONS. SARA 313: YES-FORMALDEHYDE, 36-38%,	
	CAS# 50-00-0; METHANOL, 7-12%, CAS# 67-56-1.	

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RCRA	Formaldehyde (U122) is considered a hazardous waste if and when it is discarded.
	Methanol (U154) is considered a hazardous waste if and when it is discarded.
	Note: If this product is altered, it is the responsibility of the user to determine whether the material
	meets the criteria for hazardous waste at the time of disposal.

Section 14. Transportation Information				
DOT	Regulated			
Shipping Description	Bulk Shipments (Rail Cars/Tank Trucks)	Non-bulk Shipments (Drums/Totes Bins)		
Proper Shipping Name	Formaldehyde solutions	Formaldehyde solutions		
Hazard Class	8	8		
Identification Number	UN 2209	UN 2209		
Packing Group	III	III		
Reportable Quantities	RQ (Formaldehyde) 100 pounds	RQ (Formaldehyde) 100 pounds		
Placards / Labels	Placards: Corrosive	Labels: Corrosive		
Special Provisions for	FOR BULK INTERNATIONAL SHIPMENTS	FOR BULK INTERNATIONAL SHIPMENTS		
Transport	Other possible Names:	Other possible Names:		
	"Environmentally Hazardous Substances, Liquid,	"Environmentally Hazardous Substances, Liquid,		
	N.O.S., (Formaldehyde) UN 3082".	N.O.S., (Formaldehyde) UN 3082".		
	"Combustible liquid, n.o.s. (Formaldehyde)	"Other regulated substances, liquid, n.o.s.		
	NA 1993". (domestic bulk shipments only)	(Formaldehyde) NA 3082". (domestic shipments		
		only)		
		RQ's may not apply to smaller quantity shipments.		
		For air shipments, use "Aviation regulated liquid,		
		n.o.s. UN 3334" or consult the IATA regulations.		

Section 15. Regulatory Information					
Federal Regulations	The following regulations may have reporting requirements for the components listed. See "Key to				
	Abbreviations and Acronyms" under Section 16 for definitions.				
CERCLA / SARA	A spill or release of this material may trigger the emergency release reporting requirements under				
Emergency Reporting	CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting				
	requirements may differ from federal requirements. Consult counsel for further guidance on your				
	responsibilities under these laws.				
	Formaldehyde, Methanol				
SARA Title III	This product is known to contain the following chemicals which are listed in 40 CFR 372.65 as toxic				
Section 302/Section 313	chemicals requiring notification. This information must be included in all MSDS's that are copied and				
Supplier Notification	distributed for this product.				
	Components	CAS#	% by Weight		
	Formaldehyde	50-00-0	34.0 – 37.5		
	Methanol	67-56-1	10.0 – 15.0		
CWA Section 311	The following chemicals are listed under Section 311 as hazardous substances requiring the submission				
	of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA.				
	Formaldehyde				
TSCA	All components of this product are listed on the Toxic Substances Control Act Inventory or are				
	excluded from listing requirements.				
RCRA	The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass				
Federal hazardous	any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the				
waste regulation	responsibility of the user to determine whether the material meets the criteria for hazardous waste at the				
-	time of disposal.				
Other Regulations					
	and medical surveillance requirements.				
	California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):				
	This Product contains the following substance(s) known to the State of California to cause cancer:				
	Formaldehyde				
	Cl. A. A. (CAA) 112	., , , , , , , , , , , , , , , , , , ,			
		ccidental release prevention: M			
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Section 16. Other Information				
Other Special	CAUTION! : Empty containers may contain product residue. Continue to observe recommended			
Considerations:	safety precautions when handling empty containers.			
Supersedes Date:	6-25-04			
Section(s) Changed	11 changed form possible to known carcinogen by IARC			
Since Last Revision:				
Key to Abbreviations	ACGIH - American Conference of Governmental Industrial Hygienists			
and Acronyms	ANSI - American Standards Institute			
	CEIL - Ceiling Value			
	CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act			
	CFR - Code of Federal Regulations			
	CWA - Clean Water Act			
	DOT - Department of Transportation			
	FDA - Food and Drug Administration			
	HCS - Hazard Communication Standard			
	HMIS - Hazardous Materials Information System			
	IARC - International Agency for Research on Cancer			
	IDLH - Immediately Dangerous to Life and Health			
	LC50 - The concentration of a material expected to kill 50% of an animal test group.			
	LCLO - Lowest lethal concentration of a substance			
	LD50 - The dose of a material expected to kill 50% of an animal test group.			
	LDLO - Lowest lethal dose of a material			
	MSHA - Mine Safety and Health Administration			
	N.O.S Not Otherwise Specified			
	NFPA - National Fire Protection Association			
	NIOSH - National Institute for Occupational Safety and Health			
	NTP - National Toxicology Program			
	OSHA - Occupational Safety and Health Administration			
	PEL - Permissible Exposure Limit (OSHA)			
	PPE - Personal Protective Equipment			
	RCRA - Resource Conservation and Recovery Act			
	RQ - Reportable Quantity			
	SARA - Superfund Amendments and Reauthorization Act			
	SCBA - Self-Contained Breathing Apparatus			
	STEL - Short Term Exposure Limit			
	TLV - Threshold Limit Value (recommended by ACGIH)			
	TSCA - Toxic Substances Control Act			
	TWA - Time weight Average			

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Disclaimer:

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