

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/11/2022 Revision date: 07/13/2017 Supersedes: 07/13/2017

	ION 1: Identification	
1.1.	Identification	
Produ	ct form	: Mixture
Trade	name	: Formaldehyde, 10%, methanol free, Ultra Pure
Produ	ct code	: 04018
Formu	ıla	: mixture
1.2.	Recommended use and restrictions of	n use
	nmended use	: Scientific research and development, Use as laboratory reagent, Manufacture of substances
1.3.	Supplier	
400 V Warrii T +1 2	lier ciences alley Road ngton, PA 18976 - United States 215 343 6484 - F +1 215 343 0214 polysciences.com - www.polysciences.con	1
1.4.	Emergency telephone number	
Emer	gency number	: 24-hour emergency phone number ChemTel 1-800-255-3924
OFOT		
<u>SECT</u> 2.1.	ION 2: Hazard(s) identification Classification of the substance or min	
	S classification	
Seriou Skin s Germ Carcir Specir 3, Nar	dous to the aquatic environment – Acute H	
2.2.	GHS Label elements, including preca	utionary statements
	Slabeling	
	d pictograms (GHS US)	
Signa	I word (GHS US)	Danger
-	d statements (GHS US)	<ul> <li>Harmful if swallowed, in contact with skin or if inhaled Causes skin irritation</li> <li>May cause an allergic skin reaction</li> <li>Causes serious eye irritation</li> <li>May cause drowsiness or dizziness</li> <li>Suspected of causing genetic defects</li> <li>May cause cancer</li> <li>Harmful to aquatic life</li> </ul>
Preca	utionary statements (GHS US)	<ul> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>Wash hands, forearms and face thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Use only outdoors or in a well-ventilated area.</li> </ul>

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# 2.3. Other hazards which do not result in classification

#### No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

3.1. Substances

### Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	85 – 90	Not classified
Formaldehyde	(CAS-No.) 50-00-0	10 – 15	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a physician immediately.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.	
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>	
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.	
4.2. Most important symptoms and effect	s (acute and delayed)	
Symptoms/effects	: May cause drowsiness or dizziness.	
Symptoms/effects after inhalation	: May cause respiratory irritation.	
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation.	
Symptoms/effects after eye contact	: Eye irritation.	
4.3. Immediate medical attention and spe	cial treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishi	ng media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the che	emical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and pro	ecautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equ	ipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.	

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6.1.2.	For emergency responders		
Protective equipment		: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2.	Environmental precautions		
Avoid re	elease to the environment. Notify authoritie	if product enters sewers or public waters.	
6.3.	Methods and material for containment	and cleaning up	
For co	ntainment	: Collect spillage.	
Metho	ds for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or publi waters.	
Other	information	: Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For furt	ner information refer to section 13.		
SECT	ION 7: Handling and storage		
<b>SECT</b> 7.1.	ION 7: Handling and storage Precautions for safe handling		
7.1.		: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.	
7.1. Preca	Precautions for safe handling	handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do	
7.1. Preca	Precautions for safe handling utions for safe handling	<ul> <li>handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.</li> <li>Separate working clothes from town clothes. Launder separately. Wash contaminated clothin before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>	

# SECTION 8: Exposure controls/personal protection

1. Control parameters
Formaldehyde, 10%, methanol free, Ultra Pure
No additional information available
Formaldehyde (50-00-0)
No additional information available
Water (7732-18-5)
No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls	
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: Ensure good ventilation of the work station.

# Environmental exposure controls : Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):

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9.1.Information on basic physical and chemical propertiesPhysical state:LiquidAppearance:Liquid.Color:ColortessOdor:Mixture contains one or more component(s) which have the following odour:Odor threshold:No data availablepH: $\geq 2.8$ Melting point:No data availableBoiling point:>Flash point:>Flash point:No data availableFlash point:>Relative evaporation rate (butyl acetate=1):No data availableFlash point:>Flash point:1.04Relative vapor density at 20°C:1.04Relative vapor density at 20°C:No data availableSolubility:No data availablePartition coefficient n-octanol/water (Log Pow):No data availablePartition coefficient n-octanol/water (Log Pow):No data availableViscosity, kinematic:No data availableViscosity, kinematic:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosion limits:No data availableExplosion properties:No data availableViscosity, dynamic:No data availableViscosity, dynamic:No data availableExplosion properties:No data available <td< th=""><th colspan="3">SECTION 9: Physical and chemical properties</th></td<>	SECTION 9: Physical and chemical properties		
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	Oxidizing properties	: No data available	

### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The proc	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	Stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dang	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None un	None under recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No additional information available			
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTI	ON 11: Toxicological information		
11.1.	Information on toxicological effects		
Acute t	oxicity (oral) : Harmful if swallowed.		

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Acute toxicity (dermal)	: Harmful in contact with skin.		
Acute toxicity (inhalation)	: Harmful if inhaled.		
Formaldehyde, 10%, methanol free, Ultra Pure			
LD50 oral rat	100		
ATE US (oral)	100 mg/kg body weight		
ATE US (dermal)	1500 mg/kg body weight		
ATE US (vapors)	15 mg/l/4h		
Skin corrosion/irritation	: Causes skin irritation.		
	pH: ≥ 2.8		
Serious eye damage/irritation	: Causes serious eye irritation.		
	pH: ≥ 2.8		
Respiratory or skin sensitization	: May cause an allergic skin reaction.		
Germ cell mutagenicity	: Suspected of causing genetic defects.		
Carcinogenicity	: May cause cancer.		
Formaldehyde (50-00-0)			
IARC group	1 - Carcinogenic to humans		
National Toxicity Program (NTP) Status	Known Human Carcinogens		
Reproductive toxicity	: Not classified		
STOT-single exposure	: May cause drowsiness or dizziness.		
Formaldehyde (50-00-0)			
STOT-single exposure	May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
Symptoms/effects	: May cause drowsiness or dizziness.		
Symptoms/effects after inhalation	: May cause respiratory irritation.		
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation.		
Symptoms/effects after eye contact	: Eve irritation.		

SECTI	ON 12: Ecological information		
12.1.	Toxicity		
Ecology	/ - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Harmful to aquatic life.	
12.2.	Persistence and degradability		
No additi	onal information available		
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additi	No additional information available		

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations				
13.1.	Disposal methods			
Waste	e treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting ins	tructions.	
11/13/2	2023	EN (English LIS)	5/8	

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# **SECTION 14: Transport information**

Department of Transportation (DOT) In accordance with DOT	
Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)	<ul> <li>UN2209 Formaldehyde solutions, 8, III</li> <li>UN2209</li> <li>Formaldehyde solutions</li> <li>8 - Class 8 - Corrosive material 49 CFR 173.136</li> <li>III - Minor Danger</li> <li>8 - Corrosive</li> </ul>
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 CFR 172.102)	<ul> <li>203</li> <li>241</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) Emergency Response Guide (ERG) Number	: 60 : 132
Other information	: No supplementary information available.
Transportation of Dangerous Goods Not applicable	
Transport by sea	
Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG) Limited quantities (IMDG)	<ul> <li>UN 2209 FORMALDEHYDE SOLUTION, 8, III</li> <li>2209</li> <li>FORMALDEHYDE SOLUTION</li> <li>8 - Corrosive substances</li> <li>III - substances presenting low danger</li> <li>5 L</li> </ul>
Air transport	
Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)	<ul> <li>UN 2209 Formaldehyde solution, 8, III</li> <li>2209</li> <li>Formaldehyde solution</li> <li>8 - Corrosives</li> <li>III - Low danger</li> </ul>

# SECTION 15: Regulatory information

15.1. US Federal regulations

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Formaldehyde (50-00-0)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)				
CERCLA RQ	100 lb			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb			
Water (7732-18-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				

#### 15.2. International regulations

### CANADA

Formaldehyde (50	)-00-0)	
Listed on the Canadian DSL (Domestic Substances List)		
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Substances List)		
EU-Regulations		

#### Lo regulations

### **National regulations**

# Formaldehyde (50-00-0) Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

#### 15.3. US State regulations

Formaldehyde	(50-00-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	40 µg/day	
Component		State or local regulations	S		
Formaldehyde(50-00-0)		U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know			

Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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Revision date	: 07/13/2017	
Hazard Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NC react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
SDS US (GHS HazCom 2012)		

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