Revision: August 22, 2020

(Cont'd. on page 2)

5 ,
1 Identification
· Product identifier
 Trade name: <u>Formalin Solution, 10% w/v</u> Product code: S25689
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
Classification of the substance or mixture
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Muta. 2 H341 Suspected of causing genetic defects.
Carc. 1B H350 May cause cancer.
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:
GHS07 GHS08
· Signal word: Danger

· Hazard statements: H315 Causes skin irritation.

H319 Causes serious eye irritation.H317 May cause an allergic skin reaction.H341 Suspected of causing genetic defects.

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Formalin Solution, 10% w/v (Cont'd. of page 1) H350 May cause cancer. Precautionary statements: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 If on skin: Wash with plenty of water. P321 Specific treatment (see on this label). P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. P308+P313 Take off contaminated clothing and wash it before reuse. P362+P364 If skin irritation or rash occurs: Get medical advice/attention. P333+P313 P337+P313 If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. P363 P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

omboue	113.		
50-00-0	Formaldehyde	10%	
	 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 2, H341; Carc. 1B, H350 Skin Corr. 1B, H314 Skin Sens. 1, H317 Flam. Liq. 4, H227 		
732-18-5	Water	90%	

7732-18-5 Water

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

- · General information: No special measures required.
- After inhalation:
- Supply fresh air.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

· After skin contact:

Immediately remove any clothing soiled by the product.

(Cont'd. on page 3)

Revision: August 22, 2020

	(Cont'd. of page
Immediately wash with water and soap and rinse thoroughly.	
If skin irritation or rash occurs: Get medical advice/attention.	
After eye contact:	
Protect unharmed eye.	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. If symptoms	s persist, consult a doctor.
· After swallowing:	
Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.	
· Most important symptoms and effects, both acute and delayed:	
Coughing	
Allergic reactions	
Breathing difficulty	
Gastric or intestinal disorders when ingested.	
Irritating to eyes and skin.	
· Danger:	
May be harmful if swallowed, in contact with skin or if inhaled.	
Suspected of causing genetic defects.	
May cause cancer.	
Indication of any immediate medical attention and special treatmer	nt needed:
Medical supervision for at least 48 hours.	
If necessary oxygen respiration treatment.	
Later observation for pneumonia and pulmonary edema.	
Contains Formaldehyde. May produce an allergic reaction.	
If medical advice is needed, have product container or label at hand.	
5 Fire-fighting measures	
[·] Extinguishing media	
· Suitable extinguishing agents:	
Use fire fighting measures that suit the environment.	
Carbon dioxide	
Fire-extinguishing powder	
Foam Weter fan (hann	
Water fog / haze	
Gaseous extinguishing agents	
• For safety reasons unsuitable extinguishing agents: Water stream.	
• Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.	
Formation of toxic gases is possible during fleating of in case of fire.	
· Adviss for firstighters	
Advice for firefighters	
· Protective equipment:	
• Protective equipment: Wear self-contained respiratory protective device.	
· Protective equipment:	

• Personal precautions, protective equipment and emergency procedures Isolate area and prevent access.

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Formalin Solution, 10% w/v

(Cont'd. of page 3)

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

• Environmental precautions Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

· Precautions for safe handling:

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Store away from metals.

Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

50-00-0 Forma	50-00-0 Formaldehyde	
PEL (USA)	Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)	
REL (USA)	Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A	
		(Cont'd. on page 5)

Revision: August 22, 2020

Trade name: Fo	ormalin Solution, 10% w/v	
		(Cont'd. of page 4)
TLV (USA)	Short-term value: 0.37 mg/m³, 0.3 ppm Long-term value: 0.12 mg/m³, 0.1 ppm DSEN; RSEN	(2000 00 0 1 1 1 0 2 0 2 0 7
EL (Canada)	Long-term value: 0.3 ppm Ceiling limit value: 1 ppm ACGIH A1; IARC 1; S(D), S(R)	
EV (Canada)	Short-term value: 1.0 ppm	
Ceiling limit va	alue 1.5 ppm	
LMPE (Mexic	o) Ceiling limit value: 0.3 ppm A2, SEN	
Wash hands I Store protecti Do not inhale Avoid contact • Engineering	remove all soiled and contaminated clothing. before breaks and at the end of work. ve clothing separately. gases / fumes / aerosols. with the eyes and skin. controls: Provide adequate ventilation. quipment: Not required under normal conditions of use. f hands:	
• Material of g Nitrile rubber, Butyl rubber, Neoprene glo Natural rubbe	NBR BR wes er, NR n by the components in the glove materials is possible.	
	ty glasses	
 Body protect Limitation a 	nt national guidelines concerning the use of protective eyewear. tion: Protective work clothing and supervision of exposure into the environment nformation available.	
9 Physical a	nd chemical properties	

· Information on basic physical and chemical properties · Appearance:

Form:

Г

Fluid

(Cont'd. on page 6)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

		(Cont'd. of page
Color:	Colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	~300 °C (~572 °F)	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	7 Vol %	
Upper:	73 Vol %	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	0.98 g/cm³ (8.18 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Reacts with strong acids and alkali.

Reacts with strong oxidizing agents.

Reacts with inorganic acid chlorides.

Reacts with certain metals.

Conditions to avoid

Keep ignition sources away - Do not smoke. Store away from oxidizing agents.

(Cont'd. on page 7)

Revision: August 22, 2020

Incompatible materials Oxidizers, strong bases, strong acids (Cont'd. of particular participant particular parital palanel particular particular parital particular		e: Formalin Solution, 10% w/v	
Toxicological information Information on toxicological effects Acute toxicity: May be harmful if swallowed, in contact with skin or if inhaled. LD/LCS0 values that are relevant for classification: 50-00-0 Formaldehyde Oral LD50 >200 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: May cause respiratory irritation. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. </th <th>• Hazar Under f</th> <th>lous decomposition products re conditions only:</th> <th>(Cont'd. of pag</th>	• Hazar Under f	lous decomposition products re conditions only:	(Cont'd. of pag
Information on toxicological effects Acute toxicity: May be harmful if swallowed, in contact with skin or if inhaled. LD/LC50 values that are relevant for classification: 50-00-0 Formaldehyde Oral LD50 >200 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the skin: Irritant to skin and mucous membranes. On the skin: Irritant to skin and mucous membranes. On the skin: Irritant to skin and mucous membranes. On the skin: Irritant to skin and mucous membranes. On the skin: Irritant to skin and mucous membranes. On the skin: Irritant to passible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 [Formaldehyde NTP (National Toxicology Program): 50-00-0 [Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Gern cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicit	Carbon		
Acute toxicity: May be harmful if swallowed, in contact with skin or if inhaled. LD/LC50 values that are relevant for classification: 50-00-0 Formaldehyde Oral LD50 >200 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 Formaldehyde NTP (National Toxicology Program): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	l Toxic	ological information	
50-00-0 Formaldehyde Oral LD50 >200 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 50-00-0 Formaldehyde NTP (National Toxicology Program): 50-00-0 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met.			
Oral LD50 >200 mg/kg (rat) Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 Formaldehyde NTP (National Toxicology Program): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	· LD/LC	0 values that are relevant for classification:	
Primary irritant effect: On the skin: Irritant to skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 Formaldehyde NTP (National Toxicology Program): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	50-00-0	Formaldehyde	
On the skin: Irritant to skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. IARC (International Agency for Research on Cancer): 50-00-0 Formaldehyde NTP (National Toxicology Program): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	Oral LI	050 >200 mg/kg (rat)	
50-00-0 Formaldehyde NTP (National Toxicology Program): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	 On the On the 	skin: Irritant to skin and mucous membranes. eye: Strong caustic effect.	
NTP (National Toxicology Program): 50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	· IARC (nternational Agency for Research on Cancer):	
50-00-0 Formaldehyde OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	50-00-0	Formaldehyde	
OSHA-Ca (Occupational Safety & Health Administration): 50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	· NTP (N	ational Toxicology Program):	
50-00-0 Formaldehyde Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	50-00-0	Formaldehyde	
Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	· OSHA-	Ca (Occupational Safety & Health Administration):	
Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): May be harmful if swallowed, in contact with skin or if inhaled. Irritating to eyes and skin. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: May cause respiratory irritation. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.	50-00-0	Formaldehyde	
Ecological information	Ingestic Inhalati Eye col Skin co • Acute o May be Irritating • Germ o • Carcin • Reproc • STOT-	n. bn. tact. tact. ffects (acute toxicity, irritation and corrosivity): harmful if swallowed, in contact with skin or if inhaled. to eyes and skin. ell mutagenicity: Suspected of causing genetic defects. bgenicity: May cause cancer. uctive toxicity: Based on available data, the classification criteria are not me ingle exposure: May cause respiratory irritation. epeated exposure: Based on available data, the classification criteria are not	
Ecological information			
	2 Ecolo	gical information	

· Persistence and degradability No relevant information available.

- Bioaccumulative potential: No relevant information available.
 Mobility in soil: No relevant information available.
- Additional ecological information

(Cont'd. on page 8)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Formalin Solution, 10% w/v

(Cont'd. of page 7)

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations. • **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
UN proper shipping name		
DOT, IMDG, IATA	Not regulated.	
ADR/RID/ADN	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)

· SARA

(Cont'd. on page 9)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

	(Cont'd. of pa
Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
50-00-0 Formaldehyde	
TSCA (Toxic Substances Control Act)	
All components have the value ACTIVE.	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevent	ion (40 CFR 68.130):
50-00-0 Formaldehyde	150
Proposition 65 (California)	
Chemicals known to cause cancer:	
50-00-0 Formaldehyde	
Chemicals known to cause developmental toxicity for females	:
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
EPA (Environmental Protection Agency):	
50-00-0 Formaldehyde	
IARC (International Agency for Research on Cancer):	
50-00-0 Formaldehyde	
Canadian Domestic Substances List (DSL):	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent SHA: Occupational Safety & Health Administration Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 2 Carc. 1B: Carcinogenicity – Category 1B **Sources**

(Cont'd. on page 10)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Formalin Solution, 10% w/v

(Cont'd. of page 9)

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers
SDS Prepared by:
ChemTel
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtel.com