US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/15/2023

Reviewed on 05/15/2023

1 Identification

- · Product identifier
- Trade name: Formaldehyde Solution for Color and Haze (Melamine Haze)
- · Article number: CY267
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc.
- 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification

Flammable Liquids 3	H226 Flammable liquid and vapor.
GHS06 Skull and	l crossbones
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation . GHS08 Health ha	
GHS08 Health ha Germ Cell Mutagenicity 2	azard H341 Suspected of causing genetic defects.
GHS08 Health ha	azard
GHS08 Health ha Germ Cell Mutagenicity 2	azard H341 Suspected of causing genetic defects. H350 May cause cancer.
GHS08 Health ha Germ Cell Mutagenicity 2 Carcinogenicity 1B	azard H341 Suspected of causing genetic defects. H350 May cause cancer.

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Printing date 05/15/2023 Trade name: Formaldehyde Solution for Color and Haze (Melamine Haze) Sensitization - Skin 1 H317 May cause an allergic skin reaction. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS06 GHS07 GHS02 GHS05 GHS08 · Signal word Danger · Hazard-determining components of labeling: Formaldehyde · Hazard statements Flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. · Precautionary statements *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. 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 dusts or mists.

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 must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Call a poison center/doctor if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

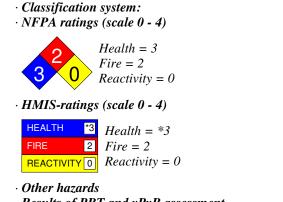
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- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

• Dangerous comp	ponents:	
CAS: 50-00-0 F	ormaldehyde	97.994%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	2.0%
CAS: 64-18-6	Formic Acid	0.006%

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- *Do not induce vomiting; immediately call for medical help.*

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
• Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu	ıst).
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 50-00-0 Formaldehyde	0.90 ppm
CAS: 64-18-6 Formic Acid	3 ppm
· PAC-2:	
CAS: 50-00-0 Formaldehyde	14 ppm
CAS: 64-18-6 Formic Acid	25 ppm
	· · · · · ·
· PAC-3:	
• PAC-3: CAS: 50-00-0 Formaldehyde	56 ppm

7 Handling and storage

• Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

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Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.
- 8 Exposure controls/personal protection
- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 50-00-0 Formaldehyde

- PEL Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)
- REL Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A
- TLV Short-term value: 0.3 ppm Long-term value: 0.1 ppm DSEN: RSEN, A1

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties	
General Information		
Appearance:	7 · · · 1	
Form: Color:	Liquid Clear	
Odor:	Clear Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-118 °C (-180.4 °F)	
Boiling point/Boiling range:	-3 °C (26.6 °F)	
Flash point:	56 °C (132.8 °F)	
Flammability (solid, gaseous):	Flammable.	
Auto igniting:	~300 °C (~572 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	7 Vol %	
Upper:	73 Vol %	
Vapor pressure at 20 °C (68 °F):	1.03 hPa (0.8 mm Hg)	
Density at 20 °C (68 °F):	0.81382 g/cm ³ (6.79133 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	r): Not determined.	
Viscosity:		
Dynamic: Kinematic:	Not determined. Not determined.	

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· Solvent content:		
Organic solvents:	98.0 %	
Water:	2.0 %	
VOC content:	97.99 %	
	797.5 g/l / 6.66 lb/gal	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

 Oral
 LD50
 >204 mg/kg (rat)

 Dermal
 LD50
 306 mg/kg

 Inhalative
 LC50/4h
 3.06 mg/l

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
CAS: 50-00-0 Formaldehyde	1
· NTP (National Toxicology Program)	
CAS: 50-00-0 Formaldehyde	K
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· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 50-00-0 Formaldehyde

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Danger to drinking water if even small quantities leak into the ground.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further 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.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information · UN-Number · DOT, IMDG, IATA UN1993 · UN proper shipping name $\cdot DOT$ Flammable liquids, n.o.s. (Formaldehyde solutions, flammable) · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Formaldehyde solutions, *flammable*) · Transport hazard class(es) · DOT · Class 3 Flammable liquids (Contd. on page 9) US

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	(Contd. of page 8)
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code)	
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
· Stowage Category	A
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S. (FORMALDEHYDE SOLUTIONS, FLAMMABLE), 3, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

Section 355 (extremely hazardous substances):	
CAS: 50-00-0 Formaldehyde	
Section 313 (Specific toxic chemical listings):	
CAS: 50-00-0 Formaldehyde	
CAS: 64-18-6 Formic Acid	
TSCA (Toxic Substances Control Act):	
Formaldehyde	ACTIVE
Water	ACTIVE
Formic Acid	ACTIVE
Hazardous Air Pollutants	
CAS: 50-00-0 Formaldehyde	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 50-00-0 Formaldehyde	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
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B1

A2

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 50-00-0 Formaldehyde

· TLV (Threshold Limit Value)

CAS: 50-00-0 Formaldehyde

· NIOSH-Ca (National Institute for Occupational Safety and Health)

CAS: 50-00-0 Formaldehyde

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

- *Hazard-determining components of labeling: Formaldehyde*
- · Hazard statements

Flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer.

• Precautionary statements

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. 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 dusts or mists. 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 must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Call a poison center/doctor if you feel unwell.

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Trade name: Formaldehyde Solution for Color and Haze (Melamine Haze)

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Take off immediately all contaminated clothing and wash it before reuse.	
If skin irritation or rash occurs: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/inter	national regulations
	anonai regulations.
National regulations:	
Additional classification according to Decree on Hazardous Materials:	
Carcinogenic hazardous material group III (dangerous).	
Information about limitation of use:	
Workers are not allowed to be exposed to the hazardous carcinogenic mater	ials contained in this preparation
	ius containea in inis preparation
Exceptions can be made by the authorities in certain cases.	- 1
Chemical safety assessment: A Chemical Safety Assessment has not been carried	
Other information	
This information is based on our present knowledge. However, this shall n	not constitute a guarantee for an
specific product features and shall not establish a legally valid contractual rela	ttionship.
Department issuing SDS: Environment protection department.	
Contact:	
Date of preparation / last revision	
Revision 1.0 05/15/2023, reviewed SDS for accuracy. STN	
Revision 0.0, 08-08-2016: Creation date for SDS. STN	
<i>Revision 1.0 01-10-2022, removed fluoride and sulfate from ingredients. STN</i>	
05/15/2023	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chamical Substances	
EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	
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