

## SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 24-Dec-2021

Revision Number 8

### 1. Identification

**Product Name** Formalin, Buffered, 10%

**Cat No. :** SF99-4; SF99-20

**Synonyms** Formaldehyde solution, buffered (Acetate Buffer/Certified)

**Recommended Use** Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

##### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

**Emergency Telephone Number** CHEMTREC®, Inside the USA: 800-424-9300  
CHEMTREC®, Outside the USA: 001-703-527-3887

### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                                                |             |
|--------------------------------------------------------------------------------|-------------|
| Flammable liquids                                                              | Category 4  |
| Skin Corrosion/Irritation                                                      | Category 2  |
| Serious Eye Damage/Eye Irritation                                              | Category 2  |
| Skin Sensitization                                                             | Category 1  |
| Germ Cell Mutagenicity                                                         | Category 2  |
| Carcinogenicity                                                                | Category 1A |
| Specific target organ toxicity (single exposure)                               | Category 1  |
| Target Organs - Respiratory system, Central nervous system (CNS), Optic nerve. |             |
| Specific target organ toxicity - (repeated exposure)                           | Category 2  |
| Target Organs - Kidney, Liver, Blood.                                          |             |

#### Label Elements

**Signal Word**  
Danger

**Hazard Statements**

Combustible liquid  
Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause respiratory irritation  
May cause drowsiness or dizziness  
Suspected of causing genetic defects  
May cause cancer  
Causes damage to organs  
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements****Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep cool

**Response**

IF exposed: Call a POISON CENTER or doctor/physician

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before reuse  
If skin irritation or rash occurs: Get medical advice/attention

**Eyes**

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

**Fire**

In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage**

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

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

WARNING. Reproductive Harm - <https://www.p65warnings.ca.gov/>.

### 3. Composition/Information on Ingredients

| Component | CAS No | Weight % |
|-----------|--------|----------|
|-----------|--------|----------|

|                |           |           |
|----------------|-----------|-----------|
| Water          | 7732-18-5 | 82 - 82.9 |
| Formaldehyde   | 50-00-0   | 3.9 - 4.0 |
| Sodium acetate | 127-09-3  | 1.2 - 2.0 |
| Methyl alcohol | 67-56-1   | 2         |

#### 4. First-aid measures

|                                            |                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b>                      | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.                                                                                                                                                                                                                                                                               |
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.                                                                                                                                                                                                                              |
| <b>Skin Contact</b>                        | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                                                                                                                                                                                                                                                               |
| <b>Inhalation</b>                          | Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.                                                         |
| <b>Ingestion</b>                           | Do NOT induce vomiting. Call a physician or poison control center immediately.                                                                                                                                                                                                                                                                                                  |
| <b>Most important symptoms and effects</b> | Difficulty in breathing. May cause allergic skin reaction. . Irritating to eyes. Irritating to skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing |
| <b>Notes to Physician</b>                  | Treat symptomatically                                                                                                                                                                                                                                                                                                                                                           |

#### 5. Fire-fighting measures

|                                         |                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>     | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers. |
| <b>Unsuitable Extinguishing Media</b>   | No information available                                                                                                                |
| <b>Flash Point</b>                      | 90 °C / 194 °F                                                                                                                          |
| <b>Method -</b>                         | No information available                                                                                                                |
| <b>Autoignition Temperature</b>         | No information available                                                                                                                |
| <b>Explosion Limits</b>                 |                                                                                                                                         |
| <b>Upper</b>                            | No data available                                                                                                                       |
| <b>Lower</b>                            | No data available                                                                                                                       |
| <b>Sensitivity to Mechanical Impact</b> | No information available                                                                                                                |
| <b>Sensitivity to Static Discharge</b>  | No information available                                                                                                                |

#### Specific Hazards Arising from the Chemical

Combustible material. Risk of ignition. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### NFPA

Health  
3Flammability  
2Instability  
0Physical hazards  
N/A

## 6. Accidental release measures

|                                             |                                                                                                                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>                 | Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| <b>Environmental Precautions</b>            | Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.                                                                                         |
| <b>Methods for Containment and Clean Up</b> | Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition.                                                                                                                             |

## 7. Handling and storage

|                 |                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Use only under a chemical fume hood. Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors/spray. Wear personal protective equipment/face protection. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. |
| <b>Storage.</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.                                                                                                                                                                                               |

## 8. Exposure controls / personal protection

### Exposure Guidelines

| Component      | ACGIH TLV                             | OSHA PEL                                                                                                                                                                                 | NIOSH IDLH                                                                                                   | Mexico OEL (TWA)              |
|----------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------|
| Formaldehyde   | TWA: 0.1 ppm<br>STEL: 0.3 ppm         | (Vacated) TWA: 3 ppm<br>(Vacated) STEL: 10 ppm<br>(Vacated) Ceiling: 5 ppm<br>TWA: 0.75 ppm<br>STEL: 2 ppm                                                                               | IDLH: 20 ppm<br>TWA: 0.016 ppm<br>Ceiling: 0.1 ppm                                                           | Ceiling: 0.3 ppm              |
| Methyl alcohol | TWA: 200 ppm<br>STEL: 250 ppm<br>Skin | (Vacated) TWA: 200 ppm<br>(Vacated) TWA: 260 mg/m <sup>3</sup><br>(Vacated) STEL: 250 ppm<br>(Vacated) STEL: 325 mg/m <sup>3</sup><br>Skin<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup> | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 325 mg/m <sup>3</sup> | TWA: 200 ppm<br>STEL: 250 ppm |

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

|                             |                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Measures</b> | Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Personal Protective Equipment

|                                 |                                                                                                                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face Protection</b>      | Tight sealing safety goggles.                                                                                                                                                                                                                     |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.                                                                                                                                                                         |
| <b>Respiratory Protection</b>   | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties**

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| Physical State                         | Liquid                                       |
| Appearance                             | Clear                                        |
| Odor                                   | pungent                                      |
| Odor Threshold                         | No information available                     |
| pH                                     | 7                                            |
| Melting Point/Range                    | 0 °C / 32 °F                                 |
| Boiling Point/Range                    | No information available - 100 °C / - 212 °F |
| Flash Point                            | 90 °C / 194 °F                               |
| Evaporation Rate                       | > 1.0                                        |
| Flammability (solid,gas)               | Not applicable                               |
| Flammability or explosive limits       |                                              |
| Upper                                  | No data available                            |
| Lower                                  | No data available                            |
| Vapor Pressure                         | No information available                     |
| Vapor Density                          | 1.0                                          |
| Specific Gravity                       | 1.10                                         |
| Solubility                             | miscible                                     |
| Partition coefficient; n-octanol/water | No data available                            |
| Autoignition Temperature               | No information available                     |
| Decomposition Temperature              | No information available                     |
| Viscosity                              | No information available                     |

**10. Stability and reactivity**

|                                  |                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Reactive Hazard                  | None known, based on information available                                                            |
| Stability                        | Stable under normal conditions.                                                                       |
| Conditions to Avoid              | Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible Materials           | Strong oxidizing agents                                                                               |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )                                               |
| Hazardous Polymerization         | Hazardous polymerization does not occur.                                                              |
| Hazardous Reactions              | None under normal processing.                                                                         |

**11. Toxicological information****Acute Toxicity**

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Product Information | No acute toxicity information is available for this product                   |
| Oral LD50           | Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. |
| Dermal LD50         | Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. |
| Vapor LC50          | Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.    |

**Component Information**

| Component      | LD50 Oral                      | LD50 Dermal                 | LC50 Inhalation                      |
|----------------|--------------------------------|-----------------------------|--------------------------------------|
| Water          | -                              | -                           | -                                    |
| Formaldehyde   | 500 mg/kg (Rat)                | LD50 = 270 mg/kg (Rabbit)   | 0.578 mg/L (Rat) 4 h                 |
| Sodium acetate | LD50 = 3530 mg/kg (Rat)        | LD50 > 10 g/kg (Rabbit)     | LC50 > 30 g/m <sup>3</sup> (Rat) 1 h |
| Methyl alcohol | LD50 = 1187 – 2769 mg/kg (Rat) | LD50 = 17100 mg/kg (Rabbit) | LC50 = 128.2 mg/L (Rat) 4 h          |

**Toxicologically Synergistic Products** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** Irritating to eyes, respiratory system and skin

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component      | CAS No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------|-----------|------------|------------|------------|------------|------------|
| Water          | 7732-18-5 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Formaldehyde   | 50-00-0   | Group 1    | Known      | A1         | X          | A2         |
| Sodium acetate | 127-09-3  | Not listed | Not listed | Not listed | Not listed | Not listed |
| Methyl alcohol | 67-56-1   | Not listed | Not listed | Not listed | Not listed | Not listed |

*IARC (International Agency for Research on Cancer)*

*IARC (International Agency for Research on Cancer)*

*Group 1 - Carcinogenic to Humans*

*Group 2A - Probably Carcinogenic to Humans*

*Group 2B - Possibly Carcinogenic to Humans*

*NTP: (National Toxicity Program)*

*NTP: (National Toxicity Program)*

*Known - Known Carcinogen*

*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*

*ACGIH: (American Conference of Governmental Industrial Hygienists)*

*A1 - Known Human Carcinogen*

*A2 - Suspected Human Carcinogen*

*A3 - Animal Carcinogen*

*Mexico - Occupational Exposure Limits - Carcinogens*

*ACGIH: (American Conference of Governmental Industrial Hygienists)*

*Mexico - Occupational Exposure Limits - Carcinogens*

*A1 - Confirmed Human Carcinogen*

*A2 - Suspected Human Carcinogen*

*A3 - Confirmed Animal Carcinogen*

*A4 - Not Classifiable as a Human Carcinogen*

*A5 - Not Suspected as a Human Carcinogen*

**Mutagenic Effects** No information available

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** Developmental effects have occurred in experimental animals.

**Teratogenicity** Teratogenic effects have occurred in experimental animals.

**STOT - single exposure** Respiratory system Central nervous system (CNS) Optic nerve

**STOT - repeated exposure** Kidney Liver Blood

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

## 12. Ecological information

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is: Toxic to aquatic organisms.

| Component      | Freshwater Algae | Freshwater Fish                                    | Microtox                                    | Water Flea                                |
|----------------|------------------|----------------------------------------------------|---------------------------------------------|-------------------------------------------|
| Formaldehyde   | Not listed       | Leuciscus idus: LC50 = 15 mg/L 96h                 | Not listed                                  | EC50 = 20 mg/L 96h<br>EC50 = 2 mg/L 48h   |
| Sodium acetate | -                | LC50: > 100 mg/L, 96h<br>semi-static (Danio rerio) | = 7200 mg/L EC50<br>Pseudomonas putida 18 h | EC50: > 1000 mg/L, 48h<br>(Daphnia magna) |

|                |            |                                            |                                                                                 |                       |
|----------------|------------|--------------------------------------------|---------------------------------------------------------------------------------|-----------------------|
| Methyl alcohol | Not listed | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 = 39000 mg/L 25 min<br>EC50 = 40000 mg/L 15 min<br>EC50 = 43000 mg/L 5 min | EC50 > 10000 mg/L 24h |
|----------------|------------|--------------------------------------------|---------------------------------------------------------------------------------|-----------------------|

**Persistence and Degradability** Miscible with water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** . Will likely be mobile in the environment due to its water solubility.

| Component      | log Pow |
|----------------|---------|
| Formaldehyde   | -0.35   |
| Sodium acetate | -4.22   |
| Methyl alcohol | -0.74   |

### 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component                | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--------------------------|------------------------|------------------------|
| Formaldehyde - 50-00-0   | U122                   | -                      |
| Methyl alcohol - 67-56-1 | U154                   | -                      |

### 14. Transport information

**DOT** COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY  
According to 49 CFR §173.150(f)(1), this material should be reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.

**UN-No** NA1993  
**Proper Shipping Name** Combustible liquid, n.o.s.  
**Packing Group** III  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/IMO** Not regulated

### 15. Regulatory information

#### United States of America Inventory

| Component      | CAS No    | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------|-----------|------|-----------------------------------------------|-----------------------------|
| Water          | 7732-18-5 | X    | ACTIVE                                        | -                           |
| Formaldehyde   | 50-00-0   | X    | ACTIVE                                        | -                           |
| Sodium acetate | 127-09-3  | X    | ACTIVE                                        | -                           |
| Methyl alcohol | 67-56-1   | X    | ACTIVE                                        | -                           |

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

- - Not Listed

**TSCA 12(b)** - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|-----------|--------|-----|------|--------|-------|------|------|------|-------|------|
|-----------|--------|-----|------|--------|-------|------|------|------|-------|------|

|                |           |   |   |           |   |   |   |   |   |          |
|----------------|-----------|---|---|-----------|---|---|---|---|---|----------|
| Water          | 7732-18-5 | X | - | 231-791-2 | X | X |   | X | X | KE-35400 |
| Formaldehyde   | 50-00-0   | X | - | 200-001-8 | X | X | X | X | X | KE-17074 |
| Sodium acetate | 127-09-3  | X | - | 204-823-8 | X | X | X | X | X | KE-00061 |
| Methyl alcohol | 67-56-1   | X | - | 200-659-6 | X | X | X | X | X | KE-23193 |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### U.S. Federal Regulations

#### SARA 313

| Component      | CAS No  | Weight %  | SARA 313 - Threshold Values % |
|----------------|---------|-----------|-------------------------------|
| Formaldehyde   | 50-00-0 | 3.9 - 4.0 | 0.1                           |
| Methyl alcohol | 67-56-1 | 2         | 1.0                           |

SARA 311/312 Hazard Categories See section 2 for more information

#### CWA (Clean Water Act)

| Component    | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|--------------|----------------------------|-----------------------------|------------------------|---------------------------|
| Formaldehyde | X                          | 100 lb                      | -                      | -                         |

#### Clean Air Act

| Component      | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|----------------|-----------|-------------------------|-------------------------|
| Formaldehyde   | X         |                         | -                       |
| Methyl alcohol | X         |                         | -                       |

OSHA - Occupational Safety and Health Administration Not applicable

| Component    | Specifically Regulated Chemicals                   | Highly Hazardous Chemicals |
|--------------|----------------------------------------------------|----------------------------|
| Formaldehyde | 2 ppm STEL<br>0.5 ppm Action Level<br>0.75 ppm TWA | TQ: 1000 lb                |

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component      | Hazardous Substances RQs | CERCLA EHS RQs |
|----------------|--------------------------|----------------|
| Formaldehyde   | 100 lb                   | 100 lb         |
| Methyl alcohol | 5000 lb                  | -              |

California Proposition 65 This product contains the following Proposition 65 chemicals.

| Component      | CAS No  | California Prop. 65  | Prop 65 NSRL | Category      |
|----------------|---------|----------------------|--------------|---------------|
| Formaldehyde   | 50-00-0 | Carc. (Gaseous only) | 40 µg/day    | Carcinogen    |
| Methyl alcohol | 67-56-1 | Developmental        | -            | Developmental |

### U.S. State Right-to-Know Regulations

| Component      | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------|---------------|------------|--------------|----------|--------------|
| Water          | -             | -          | X            | -        | -            |
| Formaldehyde   | X             | X          | X            | X        | X            |
| Methyl alcohol | X             | X          | X            | X        | X            |

### U.S. Department of Transportation

Reportable Quantity (RQ): Y  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N



## U.S. Department of Homeland Security

This product contains the following DHS chemicals:

**Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

| Component    | DHS Chemical Facility Anti-Terrorism Standard |
|--------------|-----------------------------------------------|
| Formaldehyde | Release STQs - 15000lb (solution)             |

Other International Regulations

## Mexico - Grade

Slight risk, Grade 1

## Authorisation/Restrictions according to EU REACH

| Component      | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances                                                                                                                         | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|----------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Formaldehyde   | -                                                                   | Use restricted. See item 72. (see link for restriction details)<br>Use restricted. See item 28. (see link for restriction details)<br>Use restricted. See item 75. (see link for restriction details) | -                                                                                                     |
| Methyl alcohol | -                                                                   | Use restricted. See item 69. (see link for restriction details)                                                                                                                                       | -                                                                                                     |

<https://echa.europa.eu/substances-restricted-under-reach>

## Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component      | CAS No    | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|----------------|-----------|----------|------------------------------|---------------------------|--------------------------------------------|
| Water          | 7732-18-5 | Listed   | Not applicable               | Not applicable            | Not applicable                             |
| Formaldehyde   | 50-00-0   | Listed   | Not applicable               | Not applicable            | Not applicable                             |
| Sodium acetate | 127-09-3  | Listed   | Not applicable               | Not applicable            | Not applicable                             |
| Methyl alcohol | 67-56-1   | Listed   | Not applicable               | Not applicable            | Not applicable                             |

| Component      | CAS No    | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|----------------|-----------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------|------------------------------------|
| Water          | 7732-18-5 | Not applicable                                                                            | Not applicable                                                                           | Not applicable             | Not applicable                     |
| Formaldehyde   | 50-00-0   | 5 tonne                                                                                   | 50 tonne                                                                                 | Not applicable             | Not applicable                     |
| Sodium acetate | 127-09-3  | Not applicable                                                                            | Not applicable                                                                           | Not applicable             | Not applicable                     |
| Methyl alcohol | 67-56-1   | 500 tonne                                                                                 | 5000 tonne                                                                               | Not applicable             | Not applicable                     |

## 16. Other information

## Prepared By

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## Creation Date

26-Sep-2009

## Revision Date

24-Dec-2021

## Print Date

24-Dec-2021

## Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**