

## Section 1. Identification

**Product name** : TECHNI-CLEAN 4402M  
**Product code** : WAW4402M

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Wetting agent.

**Print date** : 1/20/2023

**Validation date** : 1/20/2023

**Version** : 3.01

**Supplier's details** : Baker Petrolite LLC  
 12645 W. Airport Blvd.  
 Sugar Land, TX 77478  
 For Product Information/SDSs Call: 800-231-3606  
 (8:00 a.m. - 5:00 p.m. CST, Monday - Friday) 281-276-5400

**Emergency telephone number (with hours of operation)** : CHEMTREC: 800-424-9300 (U.S. 24 hour)  
 Baker Petrolite: 800-231-3606  
 (001)281-276-5400  
 CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** :  FLAMMABLE LIQUIDS - Category 3  
 ACUTE TOXICITY (oral) - Category 4  
 ACUTE TOXICITY (dermal) - Category 4  
 ACUTE TOXICITY (inhalation) - Category 4  
 SKIN CORROSION - Category 1  
 SERIOUS EYE DAMAGE - Category 1  
 SKIN SENSITIZATION - Category 1  
 TOXIC TO REPRODUCTION - Category 1B  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 AQUATIC HAZARD (ACUTE) - Category 2  
 AQUATIC HAZARD (LONG-TERM) - Category 3

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

## Section 2. Hazards identification

<b>Hazard statements</b>	<ul style="list-style-type: none"> <li>: <b>F</b>lammable liquid and vapor.</li> <li>Harmful if swallowed, in contact with skin or if inhaled.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs. (optic nerve)</li> <li>Toxic to aquatic life.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
<b>Precautionary statements</b>	
<b>Prevention</b>	<ul style="list-style-type: none"> <li>: <b>P</b>rohibit smoking, open flames and other ignition sources. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.</li> </ul>
<b>Response</b>	<ul style="list-style-type: none"> <li>: <b>R</b>emove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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.</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>: <b>S</b> Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>: Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
<b>Supplemental label elements</b>	<ul style="list-style-type: none"> <li>: Avoid contact with skin and clothing. Wash thoroughly after handling.</li> </ul>
<b>Hazards not otherwise classified</b>	<ul style="list-style-type: none"> <li>: Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Ingredient name	%	CAS number
Methanol	20 - 30	67-56-1
Tetrakis(hydroxymethyl)phosphonium sulfate	10 - 20	55566-30-8
Monoethanolamine	1 - 5	141-43-5
Oxyalkylated alkylphenol	1 - 5	Trade secret.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.
- Inhalation** : Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. May cause respiratory irritation.
- Skin contact** : Causes severe burns. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : respiratory tract irritation, coughing, reduced fetal weight, increase in fetal deaths, skeletal malformations
- Skin contact** : pain or irritation, redness, dryness, cracking, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations
- Ingestion** : Adverse symptoms may include the following: stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## Section 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).

- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, phosphorus oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Methanol	<p><b>ACGIH TLV (United States, 1/2022). Absorbed through skin.</b></p> <p>STEL: 328 mg/m<sup>3</sup>, 0 times per shift, 15 minutes.            STEL: 250 ppm, 0 times per shift, 15 minutes.            TWA: 262 mg/m<sup>3</sup>, 0 times per shift, 8 hours.            TWA: 200 ppm, 0 times per shift, 8 hours.</p> <p><b>NIOSH REL (United States, 10/2020). Absorbed through skin.</b></p> <p>STEL: 325 mg/m<sup>3</sup>, 0 times per shift, 15 minutes.</p>

## Section 8. Exposure controls/personal protection

	<p>STEL: 250 ppm, 0 times per shift, 15 minutes.  TWA: 260 mg/m<sup>3</sup>, 0 times per shift, 10 hours.  TWA: 200 ppm, 0 times per shift, 10 hours.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 260 mg/m<sup>3</sup>, 0 times per shift, 8 hours.  TWA: 200 ppm, 0 times per shift, 8 hours.  <b>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.</b>  STEL: 325 mg/m<sup>3</sup>, 0 times per shift, 15 minutes.  STEL: 250 ppm, 0 times per shift, 15 minutes.  TWA: 260 mg/m<sup>3</sup>, 0 times per shift, 8 hours.  TWA: 200 ppm, 0 times per shift, 8 hours.</p>
Tetrakis(hydroxymethyl)phosphonium sulfate	<p><b>ACGIH TLV (United States, 1/2022). Skin sensitizer.</b>  TWA: 2 mg/m<sup>3</sup>, 0 times per shift, 8 hours.</p>
Monoethanolamine	<p><b>ACGIH TLV (United States, 1/2022).</b>  STEL: 15 mg/m<sup>3</sup>, 0 times per shift, 15 minutes.  STEL: 6 ppm, 0 times per shift, 15 minutes.  TWA: 7.5 mg/m<sup>3</sup>, 0 times per shift, 8 hours.  TWA: 3 ppm, 0 times per shift, 8 hours.  <b>NIOSH REL (United States, 10/2020).</b>  STEL: 15 mg/m<sup>3</sup>, 0 times per shift, 15 minutes.  STEL: 6 ppm, 0 times per shift, 15 minutes.  TWA: 8 mg/m<sup>3</sup>, 0 times per shift, 10 hours.  TWA: 3 ppm, 0 times per shift, 10 hours.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 6 mg/m<sup>3</sup>, 0 times per shift, 8 hours.  TWA: 3 ppm, 0 times per shift, 8 hours.  <b>OSHA PEL 1989 (United States, 3/1989).</b>  STEL: 15 mg/m<sup>3</sup>, 0 times per shift, 15 minutes.  STEL: 6 ppm, 0 times per shift, 15 minutes.  TWA: 8 mg/m<sup>3</sup>, 0 times per shift, 8 hours.  TWA: 3 ppm, 0 times per shift, 8 hours.</p>
Oxyalkylated alkylphenol	None.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions. Although the 1989 levels have been vacated the 11th Circuit Court of Appeals, Baker Hughes recommends that these lower exposure levels be observed as reasonable worker protection.

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.

**Hand protection** : Chemical-resistant gloves.



## Section 8. Exposure controls/personal protection

- Skin protection** : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin contact.
- Respiratory protection** : If a risk assessment indicates it is necessary, use a properly fitted supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid. [Clear.]
- Color** : Yellow. [Light]
- Odor** : Alcohol
- Odor threshold** : Not available.
- pH** : 3.5 to 5.5
- Melting point/freezing point** : Neat - without dilution.
- Melting point/freezing point** : Not available.
- Initial Boiling Point** : Not available.
- Boiling point, initial boiling point, and boiling range** : Not available.
- Flash point** : Closed cup: 33°C (91.4°F) [SFCC]
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : Not available.
- Flammability** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** : Not available.
- Relative vapor density** : Not available.
- Relative density** : 1.02663 (15.6°C)
- Density** : 8.5517 (lbs/gal)
- Solubility in water** : Soluble
- Partition coefficient: n-octanol/water** :  Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.
- VOC** : Not available.
- Pour Point** : Not available.
- Particle characteristics**
- Median particle size** :  Not applicable.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.  
Methanol is incompatible and may react with acetyl bromide, alkyl aluminum solutions, beryllium hydride, boron trichloride, nitric acid, cyanuric chloride, dichloromethane, diethylzinc, metals (granulated forms of aluminum and magnesium – including aluminum and zinc salts), phosphorus III oxide, and potassium tert-butoxide.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Human	500 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Tetrakis(hydroxymethyl) phosphonium sulfate	LD50 Oral	Rat	248 mg/kg	-
Monoethanolamine	LD50 Oral	Rat	1720 mg/kg	-

#### Irritation/Corrosion

No available toxicity data.

#### Sensitization

No available toxicity data.

#### Mutagenicity

No available toxicity data.

#### Carcinogenicity

#### Classification

Product/ingredient name	OSHA	IARC	NTP
Tetrakis(hydroxymethyl) phosphonium sulfate	-	3	-

#### Reproductive toxicity

No available toxicity data.

#### Teratogenicity

No available toxicity data.



## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methanol Monoethanolamine	Category 1 Category 3	oral -	optic nerve Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not applicable.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Dermal, Inhalation.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. May cause respiratory irritation.
- Skin contact** : Causes severe burns. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : respiratory tract irritation, coughing, reduced fetal weight, increase in fetal deaths, skeletal malformations
- Skin contact** : pain or irritation, redness, dryness, cracking, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations
- Ingestion** : Adverse symptoms may include the following: stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : May damage fertility or the unborn child.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
TECHNI-CLEAN 4402M	327.9	1057.7	Not available.	10.6	3.1
Methanol	100	300	64000	3	Not available.
Tetrakis(hydroxymethyl)phosphonium sulfate	500	Not available.	Not available.	Not available.	0.5
Monoethanolamine	1720	1100	Not available.	11	Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 10000000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Tetrakis(hydroxymethyl) phosphonium sulfate	Acute EC50 0.2 mg/l	Algae	96 hours
	Acute EC50 15 to 19.4 mg/l	Daphnia	48 hours
	Acute LC50 94 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.032 ppm Marine water	Daphnia - Daphnia magna	21 days
Monoethanolamine	Acute EC50 80000 µg/l Fresh water	Algae - Isochrysis galbana	96 hours
	Acute LC50 >100000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 170000 µg/l Fresh water	Fish - Carassius auratus	96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Methanol	-0.77	<10	low
Monoethanolamine	-1.31	-	low

### Mobility in soil









Soil/water partition coefficient (K<sub>oc</sub>) :  Not available.

Other adverse effects : No known significant effects or critical hazards.


## Section 13. Disposal considerations

**Disposal methods** : Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
<b>UN number</b>	UN2924	UN2924	UN2924	UN2924
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Monoethanolamine)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Monoethanolamine)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Monoethanolamine)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Contains: Methanol, Monoethanolamine)
<b>Transport hazard class(es)</b>	3 (8)  	3 (8)  	3 (8)  	3 (8)  
<b>Packing group</b>	III	III	III	III
<b>Environmental hazards</b>	No.	No.	No.	No.

### Additional information

- DOT Classification** : **Reportable quantity** 18518.5 lbs / 8407.4 kg [2163.4 gal / 8189.3 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8).
- IATA** :  The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

**DOT Reportable Quantity** Methanol, 2165 gal of this product.

**Marine pollutant** Not available.

**North-America NAERG** : 132

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 12(b) one-time export: No products were found.  
 TSCA 12(b) annual export notification: No products were found.  
 United States inventory (TSCA 8b): All components are active or exempted.  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: Formaldehyde, solution

### United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :

List name	Status	Ingredient name	Name on list	Conc.
<input checked="" type="checkbox"/> United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Methanol	Methanol	20 - 30
<input checked="" type="checkbox"/> United States - Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed	Formaldehyde	Formaldehyde	0 - 0.1

### SARA 302/304

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
<input checked="" type="checkbox"/> Formaldehyde	0 - 0.1	Yes.	500	6.7	100	1.3

### SARA 311/312

**Classification** :  FLAMMABLE LIQUIDS - Category 3  
 ACUTE TOXICITY (oral) - Category 4  
 ACUTE TOXICITY (dermal) - Category 4  
 ACUTE TOXICITY (inhalation) - Category 4  
 SKIN CORROSION - Category 1  
 SERIOUS EYE DAMAGE - Category 1  
 SKIN SENSITIZATION - Category 1  
 TOXIC TO REPRODUCTION - Category 1B  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 HNOC - Defatting irritant

### SARA 313

	Product name	CAS number	%
<b>Supplier notification</b>	<input checked="" type="checkbox"/> Methanol Oxyalkylated alkylphenol	67-56-1 Trade secret.	20 - 30 Trade secret.

### California Prop. 65

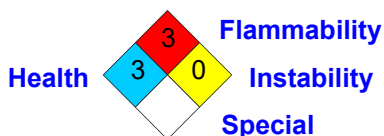
**⚠ WARNING:** This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Canada

**Canada (CEPA DSL):** : All components are listed or exempted.

## Section 16. Other information

### National Fire Protection Association (U.S.A.)



### History

## Section 16. Other information

<b>Date of printing</b>	: 1/20/2023
<b>Key to abbreviations</b>	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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