

Section 1 Identification

901 Janesville Ave
Fort Atkinson, WI 53538 USA
1-800-558-9595

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only.

Not for drug, food or household use.

| | |
|----------|---------------------------------|
| Product | NASCOGuard® Preserved Specimens |
| Synonyms | NASCOGuard® |

Section 2 Hazards Identification

Signal Word: WARNING

Pictograms: No symbol required

Target organs: Central nervous system

**GHS Classification:**

Acute Toxicity, Oral (Category 4)

Skin corrosion/irritation (Category 2)

Sensitization, Skin (Category 1)

Serious eye damage/eye irritation (Category 2A)

Carcinogenicity (Category 2)

Specific target organ toxicity, single exposure (Category 2)

GHS Label information: Hazard statement:

H302: Harmful if swallowed

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H351: Suspected of causing cancer

H371: May cause damage to organs

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC)

– Not Known

Physical hazards not otherwise classified (PHNOC) – Not Known

Precautionary Statement(s):

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P262: Do not get in eyes, on skin, or on clothing

P264: Wash hands thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330: Rinse mouth

P302+P352: IF ON SKIN: Wash with plenty of water

P332+P313: IF SKIN irritation or rash occurs: Get medical advice/attention

P304+P312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor

P405: Store locked up

Section 3 Composition / Information on ingredients

| Chemical Name | CAS # | % | EINECS |
|------------------|-----------|-----------|-----------|
| Propylene Glycol | 57-55-6 | < 50 | 200-338-0 |
| Water | 7732-18-5 | Balance | 231-791-2 |
| Phenol | 108-95-2 | < 1 | 203-632-7 |
| Formaldehyde | 50-00-0 | 0.1 – 0.5 | 200-001-8 |

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Rinse mouth. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. Remove to fresh air. Keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IN CONTACT WITH SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Water spray, fog, alcohol-resistant foam, carbon dioxide (CO₂), or dry chemical. Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways. Notify authorities if liquid enters sewers or public waters.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not

inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

| Formaldehyde (50-00-0) | | |
|------------------------|--|--|
| USA ACGIH | ACGIH Ceiling (ppm) | 0.3 ppm |
| USA ACGIH | ACGIH chemical category | Sensitizer, Suspected Human Carcinogen |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 0.016 ppm |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 0.1 ppm |
| USA IDLH | US IDLH (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 0.75 ppm |
| USA OSHA | OSHA PEL (STEL) (ppm) | 2 ppm (see 29 CFR 1910.1048) |
| Phenol (108-95-2) | | |
| USA ACGIH | ACGIH TWA (ppm) | 5 ppm |
| USA ACGIH | ACGIH chemical category | Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 19 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 5 ppm |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 60 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 15.6 ppm |
| USA IDLH | US IDLH (ppm) | 250 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 19 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 5 ppm |
| USA OSHA | Limit value category (OSHA) | prevent or reduce skin absorption |

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or face shield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

| | | |
|---|--|---|
| Appearance: Colorless liquid Odor: Faint disinfectant-like odor Odor threshold: Data not available pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available | Evaporation rate (Ether = 1): Data not available Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): Data not available Solubility(ies): Data not available | Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available Viscosity: Data not available Molecular formula: Mixture Molecular weight: Mixture |
|---|--|---|

| | |
|-------------------|-----------------------------------|
| Section 10 | Stability & Reactivity |
|-------------------|-----------------------------------|

Chemical stability: Stable under recommended handling and storage conditions (see section 7).

Hazardous polymerization: Will not occur under normal conditions.

Conditions to avoid: Direct sunlight. Excessive temperatures, low or high. Ignition sources. Incompatible materials.

Incompatible materials: Strong bases, acids, and oxidizers.

Hazardous decomposition products: Carbon oxides.

| | |
|-------------------|----------------------------------|
| Section 11 | Toxicological Information |
|-------------------|----------------------------------|

Acute toxicity: Not classified

Propylene glycol: Oral-rat LD50: 20,000 mg/kg ; Dermal-rabbit LD50: 20,800 mg/kg

Formaldehyde: Oral-rat LD50: 100 mg/kg ; Dermal-rat LD50: 270 mg/kg ; ATE (Gases): 700.00 ppmV/4h

Phenol: Oral-rat LD50: 340 mg/kg ; Dermal-rabbit LD50: 630 mg/kg ; Inhalation-rat LC50: 0.316 mg/l/4h (reported as 316 mg/m³/4h) ; ATE (Oral): 100.00 mg/kg body weight ; ATE (Gases): 700.00 ppmV/4h ; ATE (Vapors): 0.32 mg/l/4h ; ATE (Dust/Mist): 0.32 mg/l/4h

Skin corrosion/irritation: Can cause skin irritation

Serious eye damage/irritation: Causes serious eye irritation

Respiratory or skin sensitization: May cause an allergic skin reaction

Germ cell mutagenicity: Data not available

Carcinogenicity: Suspected of causing cancer

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects: Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed.

Skin: May be harmful in contact with skin. Eyes: Contact with eyes may cause irritation.

Signs and symptoms of exposure: Redness, pain, swelling, itching, burning, tearing, dermatitis, blurred vision, metabolic acidosis, gastrointestinal disturbance, nausea, headache, vomiting, and central nervous system depression. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Propylene glycol: TY2000000

Section 12 Ecological Information**Toxicity to fish:**

| | |
|---------------------------------------|--|
| 1,2-Propylene glycol (57-55-6) | |
| LC50 Fish 1 | 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | 10000 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| Formaldehyde (50-00-0) | |
| LC50 Fish 1 | 22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 2 | 11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [static]) |
| Phenol (108-95-2) | |
| LC50 Fish 1 | 11.9 - 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 4.24 - 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [static]) |
| LC 50 Fish 2 | 20.5 - 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 10.2 - 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

Toxicity to algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential:

| | |
|---------------------------------------|----------------------------------|
| 1,2-Propylene glycol (57-55-6) | |
| BCF fish 1 | < 1 |
| Log Pow | -0.92 |
| Formaldehyde (50-00-0) | |
| Log Pow | 0.35 (at 25 °C) |
| Phenol (108-95-2) | |
| BCF fish 1 | (no significant bioaccumulation) |
| Log Pow | 1.47 |

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: No data available

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information (US DOT / CANADA TDG)

| | | |
|-------------------------------------|--------------------------------------|--|
| UN/NA number: Not applicable | Shipping name: Not Regulated | |
| Hazard class: Not applicable | Packing group: Not applicable | Reportable Quantity: No |
| Marine pollutant: No | Exceptions: Not applicable | 2020 ERG Guide # Not applicable |

Section 15 Regulatory Information**US Federal Regulations**

| | |
|--|--|
| NASCO-Guard® Preserved Specimens | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard. Delayed (chronic) health hazard. |
| 1,2-Propylene glycol (57-55-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory | |
| EPA TSCA Regulatory Flag | Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule. |
| Formaldehyde (50-00-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory | |
| Listed on the United States SARA Section 302 | |
| Listed on United States SARA Section 313 | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard. Immediate (acute) health hazard. Fire hazard. |
| SARA Section 313 - Emission Reporting | 0.1 % |
| Phenol (108-95-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory. | |
| Listed on the United States SARA Section 302. | |
| Listed on United States SARA Section 313. | |
| EPA TSCA Regulatory Flag | T - T - Indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| SARA Section 302 Threshold Planning Quantity (TPQ) | ≤ 10000 |
| SARA Section 313 - Emission Reporting | 1.0 % |
| Water (7732-18-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory | |

US State Regulations

| | |
|--|--|
| Formaldehyde (50-00-0) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| 1,2-Propylene glycol (57-55-6) | |
| U.S. - New Jersey - Right to Know Hazardous Substance List | |
| U.S. - Pennsylvania - RTK (Right to Know) List | |
| Formaldehyde (50-00-0) | |
| U.S. - Massachusetts - Right To Know List | |
| U.S. - New Jersey - Right to Know Hazardous Substance List | |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List | |
| U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances | |
| U.S. - Pennsylvania - RTK (Right to Know) List | |
| Phenol (108-95-2) | |
| U.S. - Massachusetts - Right To Know List | |
| U.S. - New Jersey - Right to Know Hazardous Substance List | |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List | |
| U.S. - Pennsylvania - RTK (Right to Know) List | |

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.