

**460-S0222 (SOLN P Indicator (Phenolphthalein), Form Liquid)**

**Section: 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 460-S0222 (SOLN P Indicator (Phenolphthalein), Form Liquid)

Other means of identification : Not applicable.

Recommended use : INDICATOR LIQUID

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company  
1601 W. Diehl Road  
Naperville, Illinois 60563-1198  
USA  
TEL: (630) 305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 03/04/2026

**Section: 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 2

Eye irritation : Category 2A

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 1B

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 2 (Eyes)  
- single exposure

Specific target organ toxicity : Category 3 (Central Nervous System)  
- single exposure

**GHS Label element**

Hazard pictograms :





Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapour.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of causing genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs (Eyes).

Precautionary Statements : **Prevention:**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Do not breathe

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mist or vapours. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

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. Call a POISON CENTER or doctor/ physician if you feel unwell. 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: Call a POISON CENTER/doctor.

**Storage:**

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

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards** : None known.

### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

| Chemical Name   | CAS-No. | Concentration: (%) * |
|-----------------|---------|----------------------|
| Ethanol         | 64-17-5 | 80 - 100             |
| Methanol        | 67-56-1 | 7 - 13               |
| Phenolphthalein | 77-09-8 | 0.5 - 1.5            |

\* Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

### Section: 4. FIRST AID MEASURES

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
- In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

### Section: 5. FIRE-FIGHTING MEASURES

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- Suitable extinguishing media : Foam  
Carbon dioxide  
Dry powder  
Other extinguishing agent suitable for Class B fires  
For large fires, use water spray or fog, thoroughly drenching the burning material.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Fire Hazard  
Keep away from heat and sources of ignition.  
Flash back possible over considerable distance.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

#### Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

#### Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

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Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

Unsuitable material : not determined

#### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration            | Basis     |
|------------|---------|------------------|--------------------------------------|-----------|
| Ethanol    | 64-17-5 | TWA              | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | NIOSH REL |
|            |         | TWA              | 1,000 ppm<br>1,900 mg/m <sup>3</sup> | OSHA Z1   |
|            |         | STEL             | 1,000 ppm                            | ACGIH     |
| Methanol   | 67-56-1 | TWA              | 200 ppm                              | ACGIH     |
|            |         | STEL             | 250 ppm                              | ACGIH     |
|            |         | STEL             | 250 ppm<br>325 mg/m <sup>3</sup>     | NIOSH REL |
|            |         | TWA              | 200 ppm<br>260 mg/m <sup>3</sup>     | NIOSH REL |
|            |         | TWA              | 200 ppm<br>260 mg/m <sup>3</sup>     | OSHA Z1   |

Engineering measures : Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.

##### Personal protective equipment

Eye protection : Safety goggles  
Face-shield

Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Wear suitable protective clothing.

Respiratory protection : Use local exhaust ventilation or other engineering controls as necessary to control airborne vapour and mist.  
When significant vapours are generated, an approved air purifying respirator is recommended to supplement other control measures for short term exposure.  
Use a particulate pre-filter where operations generate significant mists or aerosols.  
Recommended gas and vapour cartridge:  
Multi-purpose combination filter  
Methanol Warning! Protection provided by air purifying respirators is limited due to methanol's ability to break through filter media and its poor warning properties. For prolonged exposures, entry into unknown environments or where methanol is suspected to exceed exposure limits, use a positive pressure, full-facepiece SCBA or supplied-air respirator.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

#### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                        |                                                     |
|--------------------------------------------------------|-----------------------------------------------------|
| Physical State                                         | : Liquid                                            |
| Colour                                                 | : Colorless                                         |
| Odour                                                  | : Alcoholic                                         |
| Flash point                                            | : 14 °C, Method: ASTM D 56, Tag closed cup, minimum |
| pH                                                     | : 8.8,(100 %)                                       |
| Odour Threshold                                        | : no data available                                 |
| Melting point/freezing point                           | : no data available                                 |
| Boiling point, initial boiling point and boiling range | : no data available                                 |
| Evaporation rate                                       | : no data available                                 |
| Flammability                                           | : Not applicable.                                   |
| Upper explosion limit                                  | : no data available                                 |
| Lower explosion limit                                  | : no data available                                 |
| Vapour pressure                                        | : no data available                                 |
| Relative vapour density                                | : no data available                                 |
| Relative density                                       | : 0.82, (25 °C),                                    |
| Density                                                | : 6.81 lb/gal                                       |
| Water solubility                                       | : completely soluble                                |
| Solubility in other solvents                           | : no data available                                 |
| Partition coefficient: n-octanol/water                 | : no data available                                 |
| Auto-ignition temperature                              | : no data available                                 |
| Decomposition temperature                              | : no data available                                 |
| Viscosity, dynamic                                     | : no data available                                 |
| Viscosity, kinematic                                   | : no data available                                 |
| Molecular weight                                       | : no data available                                 |
| VOC                                                    | : 95 %, Calculation method                          |
| Particle characteristics                               | : no data available                                 |

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#### Section: 10. STABILITY AND REACTIVITY

|                                                                                             |                                                               |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Reactivity                                                                                  | : No dangerous reaction known under conditions of normal use. |
| Chemical stability                                                                          | : Stable under normal conditions.                             |
| Possibility of hazardous reactions, including those associated with foreseeable emergencies | : No dangerous reaction known under conditions of normal use. |
| Conditions to avoid                                                                         | : Heat, flames and sparks.                                    |
| Incompatible materials                                                                      | : Strong oxidizing agents                                     |
| Hazardous decomposition products                                                            | : In the event of fire, see Section 5                         |

#### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact, Ingestion

##### Potential Health Effects

|                  |                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes             | : Causes serious eye irritation.                                                                                                                                      |
| Skin             | : Health injuries are not known or expected under normal use.                                                                                                         |
| Ingestion        | : May cause blindness if swallowed.                                                                                                                                   |
| Inhalation       | : Inhalation may cause central nervous system effects.                                                                                                                |
| Chronic Exposure | : May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause genetic defects. Suspected of causing genetic defects. |

##### Experience with human exposure

|              |                                  |
|--------------|----------------------------------|
| Eye contact  | : Redness, Pain, Irritation      |
| Skin contact | : No symptoms known or expected. |
| Ingestion    | : No symptoms known or expected. |
| Inhalation   | : Dizziness, Drowsiness          |

##### Toxicity

##### Product

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|                                   |                                                                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity               | : LD50 rat: 7,060 mg/kg<br>Test substance: Hazardous component<br><br>LD50 rat: 5,628 mg/kg<br>Test substance: Hazardous component           |
| Acute inhalation toxicity         | : Acute toxicity estimate: 34.05 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour                                                       |
| Acute dermal toxicity             | : Acute toxicity estimate: 3,405 mg/kg                                                                                                       |
| Skin corrosion/irritation         | : no data available                                                                                                                          |
| Serious eye damage/eye irritation | : no data available                                                                                                                          |
| Respiratory or skin sensitization | : no data available                                                                                                                          |
| Carcinogenicity                   |                                                                                                                                              |
| IARC                              | <b>Group 1: Carcinogenic to humans</b><br>Ethanol 64-17-5<br><br><b>Group 2B: Possibly carcinogenic to humans</b><br>Phenolphthalein 77-09-8 |
| OSHA                              | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.                     |
| NTP                               | <b>Reasonably anticipated to be a human carcinogen</b><br>Phenolphthalein 77-09-8                                                            |
| Reproductive effects              | : no data available                                                                                                                          |
| Germ cell mutagenicity            | : no data available                                                                                                                          |
| Teratogenicity                    | : no data available                                                                                                                          |
| STOT - single exposure            | : no data available                                                                                                                          |
| STOT - repeated exposure          | : no data available                                                                                                                          |
| Aspiration toxicity               | : no data available                                                                                                                          |

### Section: 12. ECOLOGICAL INFORMATION

#### Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

#### Components

Toxicity to fish : Ethanol  
LC50 Pimephales promelas (fathead minnow): > 100 mg/l  
Exposure time: 96 h  
  
Methanol  
LC50: 15,400 mg/l  
Exposure time: 96 h

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#### Components

Toxicity to daphnia and other aquatic invertebrates : Ethanol  
EC50 Aquatic Invertebrate: 857 mg/l  
Exposure time: 48 h

Methanol  
EC50 : > 10,000 mg/l  
Exposure time: 48 h

Phenolphthalein  
EC50 Daphnia magna Straus: > 100 mg/l  
Exposure time: 48 h

#### Components

Toxicity to algae : Methanol  
EC50 : 22,000 mg/l  
Exposure time: 72 h

Phenolphthalein  
EC50 Desmodesmus subspicatus (green algae): 2.5 mg/l  
Exposure time: 72 h

#### Components

Toxicity to bacteria : Methanol  
> 1,000 mg/l

#### Components

Toxicity to fish (Chronic toxicity) : Ethanol  
NOEC: 250 mg/l  
Exposure time: 5 d  
Species: Danio rerio (zebra fish)

Methanol  
NOEC: 7,900 mg/l  
Exposure time: 8.3 d

#### Components

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Ethanol  
NOEC: 9.6 mg/l  
Exposure time: 7 d  
Species: Aquatic Invertebrate

#### Persistence and degradability

The organic portion of this preparation is expected to be readily biodegradable.

#### Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

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If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

|       |            |
|-------|------------|
| Air   | : 5 - 10%  |
| Water | : 30 - 50% |
| Soil  | : 30 - 50% |

The portion in water is expected to be soluble or dispersible.

#### Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

#### Other information

no data available

### Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

|                         |                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous Waste:        | : D001                                                                                                                                                                                                                              |
| Disposal methods        | : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.                                                                      |

### Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT)

|                            |                            |
|----------------------------|----------------------------|
| Proper shipping name       | : FLAMMABLE LIQUID, N.O.S. |
| Technical name(s)          | : METHANOL, ETHANOL        |
| UN/ID No.                  | : UN 1993                  |
| Transport hazard class(es) | : 3                        |
| Packing group              | : II                       |

#### Air transport (IATA)

|                            |                            |
|----------------------------|----------------------------|
| Proper shipping name       | : FLAMMABLE LIQUID, N.O.S. |
| Technical name(s)          | : ETHANOL, METHANOL        |
| UN/ID No.                  | : UN 1993                  |
| Transport hazard class(es) | : 3                        |
| Packing group              | : II                       |

#### Sea transport (IMDG/IMO)

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Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
Technical name(s) : ETHANOL, METHANOL  
UN/ID No. : UN 1993  
Transport hazard class(es) : 3  
Packing group : II

#### Section: 15. REGULATORY INFORMATION

**TSCA list** : No substances are subject to a Significant New Use Rule.  
  
No substances are subject to TSCA 12(b) export notification requirements.

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| Methanol   | 67-56-1 | 5000               | 56747                       |

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Germ cell mutagenicity  
Carcinogenicity  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Serious eye damage or eye irritation

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                 |         |          |
|-----------------|---------|----------|
| Methanol        | 67-56-1 | 5 - 10 % |
| Phenolphthalein | 77-09-8 | 1 - 5 %  |

#### California Prop. 65

 **WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

|                 |         |
|-----------------|---------|
| Ethanol         | 64-17-5 |
| Phenolphthalein | 77-09-8 |

 **WARNING:** Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

|          |         |
|----------|---------|
| Ethanol  | 64-17-5 |
| Methanol | 67-56-1 |

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#### INTERNATIONAL CHEMICAL CONTROL LAWS :

##### EU. EINECS

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

##### United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

##### Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

##### Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

##### Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

##### Korea. Korean Existing Chemicals Inventory (KECI)

On the Korea Existing Chemicals Inventory.

##### New Zealand Inventory of Chemicals (NZIoC)

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

##### Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

##### China Inventory of Existing Chemical Substances

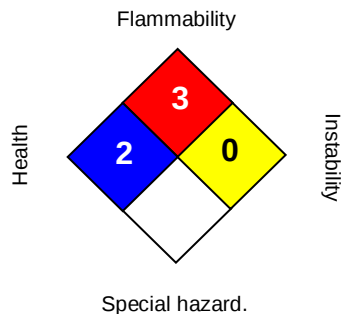
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

##### Taiwan Chemical Substance Inventory

On the inventory, or in compliance with the inventory.

#### Section: 16. OTHER INFORMATION

##### NFPA:



##### HMIS® IV / CED:

|                 |     |
|-----------------|-----|
| HEALTH          | * 3 |
| FLAMMABILITY    | 3   |
| PHYSICAL HAZARD | 0   |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Revision Date : 03/04/2026

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Version Number : 1.3  
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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. For additional copies of an SDS visit [www.ecolab.com/sds](http://www.ecolab.com/sds) and request access.