1 Identification

Product identifier

Trade name: **TYTRON P988**

SDS ID Number: 56760

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

Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

Label elements:

Hazard pictograms

![GHS07 GHS08](image)

Warning

Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

(Cont. on page 2)
Trade name: TYTRON P988

Precautionary statements
Wash thoroughly after handling.
Wear eye protection / face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of water.
If eye irritation persists: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.

NFPA ratings (scale 0 - 4)
Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)
HEALTH: *2
FIRE: 1
REACTIVITY: 0

Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with additional nonhazardous ingredients.

Hazardous components:

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Substance Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-46-6</td>
<td>Diethylene glycol</td>
<td>5.0-10.0%</td>
</tr>
<tr>
<td>9004-82-4</td>
<td>Lauryl ether sulfate, sodium salt</td>
<td>2.0-5.0%</td>
</tr>
<tr>
<td>68585-34-2</td>
<td>Sodium alkyl ether sulphate</td>
<td>2.0-5.0%</td>
</tr>
<tr>
<td>14960-06-6</td>
<td>Sodium lauryliminodipropionate</td>
<td>1.0-2.0%</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>0.1-1.0%</td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.
Trade name: **TYTRON P988**

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

### 5 Fire-fighting measures
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures
- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
- **Methods and material for containment and cleaning up:**
  - Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.
  - Sweep up spilled product into receptacles.
  - Dispose contaminated material as waste according to section 13 of the SDS.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

### 7 Handling and storage
- **Handling:**
  - **Precautions for safe handling**
    - Prevent formation of aerosols.
    - Avoid contact with skin.
    - Avoid contact with eyes.
  - **Information about protection against explosions and fires:** No special measures required.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Information about storage in one common storage facility** No special measures required.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
    - **Specific end use(s)** No further relevant information available.
8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>substance</th>
<th>limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

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

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Respiratory protection is not normally required. However, a chemical cartridge respirator with organic vapor cartridge and a prefilter for dusts/mists is required at or above the applicable exposure limits (consult exposure guidelines). If no limits exist, use an approved respirator whenever a vapor or mist is generated or if respiratory irritation occurs. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:

Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td></td>
</tr>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
Trade name: **TYTRON P988**

<table>
<thead>
<tr>
<th><strong>pH-value (~) at 20 °C (68 °F):</strong></th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 93 °C (&gt; 199 °F)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC Content (max):</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapor pressure:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density: (~) at 20 °C (68 °F)</td>
<td>1.1 g/cm³ (9.18 lbs/gal)</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Molecular weight:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 10 Stability and reactivity

**Reactivity** Stable under normal conditions.

**Chemical stability**

**Thermal decomposition:** No decomposition if used according to specifications.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.

### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-46-6 Diethylene glycol</td>
</tr>
<tr>
<td>Oral LD50, 1120 mg/kg (human)</td>
</tr>
</tbody>
</table>

(Cont. on page 6)
Trade name: **TYTRON P988**

<table>
<thead>
<tr>
<th>1310-58-3 Potassium hydroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral [LD₅₀] 365 mg/kg (rat) (OECD 425)</td>
</tr>
</tbody>
</table>

**Primary irritant effect:**
- **on the skin:** May cause sensitization by skin contact.
- **on the eye:** Causes serious eye irritation.
- **Inhalation:** No irritating effect expected
- **Ingestion:** May cause damage to organs through prolonged or repeated exposure.
- **Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

**Carcinogenic categories**

IARC (International Agency for Research on Cancer) Human Carcinogenicity:

- Group 1 - Positive
- Group 2A - Probable
- Group 2B - Possible
- Group 3 - Not Classifiable

None of the ingredients is listed.

NTP (National Toxicology Program)

- **K** - Known to be carcinogenic
- **R** - May reasonably be anticipated to be carcinogenic

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

**Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:** Not known to be hazardous to water.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

13 Disposal considerations

**Waste treatment methods** Comply with Federal, State and local regulations.
Trade name: **TYTRON P988**

**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

---

### 14 Transport information

<table>
<thead>
<tr>
<th><strong>UN-Number</strong></th>
<th>DOT, ADR, ADN, IMDG, IATA</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN proper shipping name</strong></td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Transport hazard class(es)</strong></td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Class</strong></td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Packing group</strong></td>
<td>DOT, ADR, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Environmental hazards:</strong></td>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td><strong>Special precautions for user</strong></td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Transport/Additional information:</strong></td>
<td>DOT Remarks:</td>
<td>Not Regulated.</td>
</tr>
<tr>
<td><strong>UN &quot;Model Regulation&quot;:</strong></td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

---

### 15 Regulatory information

**SARA (Superfund Amendments and Reauthorization Act)**

- **Section 302/304 (extremely hazardous substances):** None of the ingredients is listed.
- **Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):** None of the ingredients is listed.

**SARA Section 312/Tier I & II Hazard Categories:**

- Health Delayed (chronic): Yes
- Health Immediate (acute): Yes
- Flammable: No
- Reactive: No
- Pressure: No

**North America Chemical Inventory Status**

**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.
CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65

Chemicals known to cause cancer:
- Formaldehyde
- 1,4-dioxane
- Ethylene oxide
- Acetaldehyde

Chemicals known to cause reproductive toxicity for females:
- 75-21-8 Ethylene oxide

Chemicals known to cause reproductive toxicity for males:
- 75-21-8 Ethylene oxide

Chemicals known to cause developmental toxicity:
- 107-21-1 Ethylene glycol
- 67-56-1 Methanol
- 75-21-8 Ethylene oxide

Carcinogenicity Categories

EPA (Environmental Protection Agency)
None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)

Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
- Sucrose A4

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 06/22/2016 / -

The first date of preparation 05/19/2015

Number of revision times and the latest revision date 1.0 / 06/22/2016