SAFETY DATA SHEET

Section 1 - Identification

Product Identifier: Earth Sense® TP #19 Glass & Window Cleaner (Concentrate)
Other means of identification: 4019
Recommended use: Glass cleaner.
Recommended restrictions: For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information
Company Name: National Chemical Laboratories of PA, Inc.
Address: 401 N. 10th Street - Philadelphia, PA 19123
Telephone: 1 (215) 922-1200
Supplier Email: info@nclonline.com
Contact: CHEM-TEL
Emergency Phone: 1 (800) 255-3924

Section 2 - Hazard(s) Identification

Physical Hazards
Health Hazards: Serious eye damage/eye irritation
OSHA defined hazards: Not classified.

Label Elements
Hazard Symbol: None.
Signal Word: Warning
Hazard Statement: Causes eye irritation.
Precautionary statement
Prevention: Wear eye/face protection.
Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Section 3 - Composition/Information on ingredients

Mixture
Hazardous Components: Surfactant & Complexing agent
Composition Comments: Chemical identity of the components is a trade secret of the manufacturer.
Components not listed are either non-hazardous or are below reportable limits.

CAS # | %
--- | ---
Mixture | 60 - 80

Section 4 - First-aid Measures

Inhalation: Move to fresh air. Get medical attention if symptoms occur.
Skin contact: Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation develops or persists.
Eye contact: Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. If irritation persists, get medical attention.
Ingestion: Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.

Most Important symptoms/effects, acute and delayed: Causes eye irritation. Prolonged skin contact may cause irritation.
Indication of immediate medical attention and special treatment: Treat symptomatically.
Section 5 - Fire-fighting measures

Suitable extinguishing media
Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures
Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up
SMALL SPILLAGE: Absorb spill with suitable absorbent material.
LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling
Avoid contact with eyes, skin, and clothing. Use Personal Protective Equipment recommended in section 8 of the SDS.

Conditions for safe storage, including any incompatibilities
Store away from incompatible materials. Keep container closed.

Section 8 - Exposure control/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Use personal protective equipment as required. Keep working clothes separately.

Appropriate engineering controls
Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection
If use of product risks exposure to contact, wear safety glasses with side shields.

Skin protection
Hand protection
Impervious gloves are recommended for prolonged use.

Other
If use of product risk exposure to contact, wear suitable protective clothing.

Respiratory protection
In case of inadequate ventilation, use respiratory protection.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and chemical properties

Appearance
Clear.

Physical state
Liquid.

Form
Liquid.

Color
Blue.

Odor
None. No fragrance added.

Odor threshold
Not available.

pH
11.5 ± 0.5 (Conc)
10.4 ± 0.5 (1:100)

Melting point/freezing point
Not available.

Initial boiling point and boiling range
212 °F (100 °C)

Flash point
> 212.0 °F (> 100.0 °C)

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Flammability limit - lower (%) Not available.
Flammability limit - upper (%) Not available.
Explosive limit - lower (%) Not available.
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Similar to water.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Similar to water.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.09 ± 0.01</td>
</tr>
<tr>
<td>Relative density temperature</td>
<td>75 °F (23.9 °C)</td>
</tr>
<tr>
<td>Solubilities (water)</td>
<td>100% Soluble.</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>n-octanol/water</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt; 10 cP</td>
</tr>
<tr>
<td>Viscosity Temperature</td>
<td>75 °F (23.9 °C)</td>
</tr>
</tbody>
</table>

**Section 10 - Stability and reactivity**

- **Reactivity**: The product is non-reactive under normal conditions of use, storage and transport.
- **Chemical stability**: Stable at normal conditions.
- **Possibility of hazardous reactions**: Hazardous polymerization does not occur.
- **Conditions to Avoid**: Contact with incompatible materials.
- **Incompatible materials**: Oxidizing agents.
- **Hazardous Decomposition Products**: None known.

**Section 11 - Toxicological information**

- **Information on likely routes of exposure**
  - Ingestion: May be harmful if swallowed.
  - Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
  - Skin contact: Prolonged skin contact may cause irritation.
  - Eye contact: Causes eye irritation.
  - Symptoms related to the physical, chemical and toxicological characteristics: Causes skin and eye irritation.

**Information on toxicological effects**

- **Acute toxicity**: May be harmful if swallowed.
- **Skin corrosion/irritation**: Prolonged skin contact may cause irritation.
- **Serious eye damage/eye irritation**: Causes eye irritation.
- **Respiratory sensitization**: Not classified.
- **Skin sensitization**: Not classified.
- **Germ cell mutagenicity**: Not classified.
- **Carcinogenicity**: Not classified.
- **Reproductive toxicity**: Not classified.
- **Specific target organ toxicity - single exposure**: Not classified.
- **Specific target organ toxicity - repeated exposure**: Not classified.
- **Aspiration hazard**: Not available.

**Section 12 - Ecological Information**

- **Ecotoxicity**: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
- **Persistence and degradability**: The product is expected to be biodegradable.
- **Bioaccumulative potential**: Not known.
- **Mobility in soil**: Not available.
- **Mobility in general**: The product is water soluble and may spread in water systems.
- **Other adverse effects**: None known.

**Section 13 - Disposal considerations**

- **Disposal instructions**: Dispose in accordance with applicable federal, state, and local regulations.
- **Local disposal regulations**: Dispose of in accordance with local regulations.
- **Hazardous waste code**: Waste codes should be assigned by the user based on the application for which the product was used.
SAFETY DATA SHEET

Waste from residues / unused products
Dispose in accordance with all applicable regulations.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code
This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
No

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Food and Drug Administration (FDA)
Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not listed.

US. Pennsylvania RTK - Hazardous Substances
Not listed.

US. Rhode Island RTK
Not regulated.

US - California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region
Australia
Canada
Canada
China
Europe
Europe
Japan
Korea
New Zealand
Philippines
United States Puerto Rico

Inventory Name
Australian Inventory of Chemical Substances (AICS)
Domestic Substances List (DSL)
Non-Domestic Substances List (NDSL)
Inventory of Existing Chemical Substances in China (IECSC)
European Inventory of Existing Commercial Chemical Substances (EINECS)
European List of Notified Chemical Substances (ELINCS)
Inventory of Existing and New Chemical Substances (ENCS)
Existing Chemicals List (ECL)
New Zealand Inventory
Philippine Inventory of Chemicals and Chemical Substances
Toxic Substances Control Act (TSCA) Inventory

On Inventory (yes/no)*
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

* A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Other information, including date of preparation or last version

Revision date
1/17/2018

Version #
02

Further information
Meets Green Seal's requirements for acute toxicity at the as-used dilution.

References
HSDB® - Hazardous Substances Data Bank
HPVIS - High Production Volume Information System
Disclaimer

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer’s control, it is the user’s responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product’s improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.