SAFETY DATA SHEET

BRIGHT CLEANSE NO. 321
Product ID: FP032101
Revised: 10-30-2014
Replaces: 09-03-2013

1. IDENTIFICATION

Product Name: BRIGHT CLEANSE NO. 321
Synonyms: N.A.
CAS Number: PROPRIETARY
Recommended Use: No data available.
Restrictions on Use: No data available.

Hydrite Chemical Co.
300 N. Patrick Blvd.
Brookfield, WI 53008-0948
(262) 792-1450

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (414) 277-1311
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION

Signal Word: Warning
GHS Classification: Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary Statements:
Prevention:
Avoid breathing dust, gas, mist, vapors or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear gloves, eye and face protection and protective clothing.

Response:
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor if you feel unwell.
Specific treatment (see First Aid on SDS or on this label).
If skin irritation occurs: Get medical advice or attention.
If eye irritation persists: Get medical advice or attention.
Take off contaminated clothing and wash before reuse.

Storage:
Store in a well-ventilated place. Keep container tightly closed.
Store in a secure manner.

Disposal:
Dispose of in accordance with local, regional and international regulations.

Hazards Not Otherwise Classified: None known.
Percentage of Components with Unknown Acute Toxicity:
Oral: 75.2 %
Inhalation Vapor: 94.4 %
Inhalation Dust/Mist: 94.4 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy-,</td>
<td>9016-45-9</td>
<td>&lt; 80 %</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>34590-94-8</td>
<td>&lt; 25 %</td>
</tr>
<tr>
<td>Sodium Xylene Sulfonate</td>
<td>1300-72-7</td>
<td>&lt; 10 %</td>
</tr>
</tbody>
</table>

Note: This product may contain one or both CAS#'s, 9016-45-9 and/or 127087-87-0.

4. FIRST-AID MEASURES

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Remove contact lenses if worn.

Skin Contact: If on skin: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Contaminated clothing should be washed before reuse.

Inhalation: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY. Keep warm and quiet.

Ingestion: If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Rinse mouth with fresh water.

Note to Physicians:
Maintain adequate ventilation and oxygenation of the patient. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Most Important Symptoms/Effects:

Eye Contact: May cause severe irritation. May cause: pain. blinking. tearing. redness. swelling. corneal injury.

Skin Contact: May cause mild irritation. Prolonged contact may cause: redness. severe irritation. discomfort. swelling. rash. dermatitis (inflammation of the skin).

Skin Absorption: May be absorbed through skin. Prolonged or repeated exposure may cause: central nervous system effects. weight loss. Similar materials have been shown to cause lung effects following contact with the skin of rabbits.

Inhalation: No hazard expected under normal use. Prolonged excessive exposure may cause serious adverse effects, even death. Vapors or mists may irritate: nose. throat. upper respiratory tract. Inhalation overexposure may lead to central nervous system depression producing effects such as: anesthetic effects. narcotic effects. drowsiness. dizziness.

Ingestion: May cause mild irritation. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. Harmful effects not anticipated from swallowing small amounts. Large amounts may cause: hepatic and renal injury. central nervous system depression. May cause: abdominal discomfort. nausea. diarrhea. vomiting.
5. FIRE-FIGHTING MEASURES


Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Do not use direct water stream. May spread fire. Move containers from fire area if possible without hazard.

Fire and Explosion Hazards: None known. Container may rupture from gas generation in a fire situation. May form peroxides of unknown stability.


6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Do not touch or walk through spilled material. Shut off source of leak if safe to do so. Prevent entry into basements, low areas, or confined areas. Contain spill, place into drums for proper disposal. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death.


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:
Component | Limits
--- | ---
Dipropylene Glycol Monomethyl Ether | 100 ppm TWA; 600 mg/m3 TWA; (Skin)

ACGIH Exposure Guidelines:
Component | Limits
--- | ---
Dipropylene Glycol Monomethyl Ether | 150 ppm STEL; 100 ppm TWA; (Skin)

Engineering Controls: General room ventilation and local exhaust are required. Use explosion-proof ventilation equipment. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Eye/Face Protection: Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.
Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Chemical-resistant. Impervious.

Respiratory Protection: Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH-Approved organic respirator. NIOSH-Approved full-facepiece positive-pressure, air-supplied respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.


General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear. Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N.D.</td>
</tr>
<tr>
<td>pH</td>
<td>7.00</td>
</tr>
<tr>
<td>Freezing Point (deg. F)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Melting Point (deg. F)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Initial Boiling Point or Boiling Range</td>
<td>&gt; 200 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N.D.</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>N.A.</td>
</tr>
<tr>
<td>Evaporation Rate (nBuAc = 1)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>N.A.</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>N.A.</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Specific Gravity or Relative Density</td>
<td>1.06 @ 25 Deg. C</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Appreciable</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No Data</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N.D.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N.D.</td>
</tr>
<tr>
<td>% Volatile (wt%)</td>
<td>N.D.</td>
</tr>
<tr>
<td>VOC (wt%)</td>
<td>N.D.</td>
</tr>
<tr>
<td>VOC (lbs/gal)</td>
<td>N.D.</td>
</tr>
<tr>
<td>Fire Point</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid: Peroxides may form on prolonged storage in contact with air. Do not distill to near dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.


### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy-</td>
<td>No Data</td>
<td>Rabbit: 1780 µL/kg</td>
<td>No Data</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td>Rat: 5230 mg/kg</td>
<td>Rabbit: 9500 mg/kg</td>
<td>No Data</td>
</tr>
<tr>
<td>Sodium Xylene Sulfonate</td>
<td>Rat: 7200 mg/kg</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

**Acute Toxicity Estimate (ATE):**

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal</td>
<td>2,498 mg/kg</td>
</tr>
</tbody>
</table>

**Routes of Exposure:** Eyes. Skin. Inhalation. Ingestion. Absorption.

**Eye Contact:** May cause severe irritation. May cause: pain. blinking. tearing. redness. swelling. corneal injury.

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**Medical Conditions Aggravated by Exposure to Product:** Dermatitis.

**Other:** In animals, effects have been reported on the following organs: Kidney. Liver. Repeated Dose Toxicity: Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

**Cancer Information:**
This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** No data available.

**Chemical Fate Information:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Hazardous Waste Number:** N.A.

**Disposal Method:** Dispose of in accordance with all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste.
BRIGHT CLEANSE NO. 321
Product ID: FP032101

generator. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Proper Shipping Name: Not regulated by the DOT.

15. REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

<table>
<thead>
<tr>
<th>SARA Title III Section 311/312 Category Hazards:</th>
<th>Immediate (Acute)</th>
<th>Delayed (Chronic)</th>
<th>Fire Hazard</th>
<th>Pressure Release</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Regulated Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>CERCLA RQ</th>
<th>SARA EHS</th>
<th>SARA 313</th>
<th>U.S. HAP</th>
<th>WI HAP</th>
<th>Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
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</tr>
</tbody>
</table>

No components found.

*Prop 65 - May Contain the Following Trace Components:
Ethylene Oxide

Note: * This product contains 3 % Glycol Ethers which are subject to reporting under Section 313 and is listed as a U.S. EPA Hazardous Air Pollutant.

16. OTHER INFORMATION

Hazard Rating System
Health: 3
Flammability: 1
Reactivity: 0
* = Chronic Health Hazard

NFPA Rating System
Health: 3
Flammability: 1
Reactivity: 0

Special Hazard: None

SDS Abbreviations
N.A. = Not Applicable
N.D. = Not Determined
HAP = Hazardous Air Pollutant
VOC = Volatile Organic Compound
C = Ceiling Limit
N.E./Not Estab. = Not Established

SDS Prepared by: JAK

Reason for Revision: Product formulation change.

Revised: 10-30-2014
Replaces: 09-03-2013

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for...
which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.