Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
Product name: Natural Green Cleaner-Degreaser
Product number: 321
Brand: Crown Chemical, Inc.

1.2 Other means of identification
Natural Green Cleaner-Degreaser

1.3 Recommended use of the chemical and restrictions on use
All purpose cleaner-degreaser

1.4 Supplier's details
Name: Crown Chemical, Inc.
Address: 4701 W. 136th. St.
Crestwood, Illinois 60418
U.S.A.
Telephone: 708-371-6990
Fax: 708-371-6992
email: info@crown-chem.com

1.5 Emergency phone number(s)
800-535-5053

SECTION 2: Hazard identification

General hazard statement
Causes skin irritation; Causes serious eye irritation

2.1 Classification of the substance or mixture
GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

2.2 GHS label elements, including precautionary statements

Pictogram

1. Exclamation mark

Signal word Warning

Hazard statement(s)
H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary statement(s)
P264 Wash hands & skin thoroughly after handling.
P280  Wear eye protection/face protection/protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water/Take off immediately contaminated clothing and wash it before reuse. Call a poison control center or doctor for treatment advice if irritation persists.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards which do not result in classification
None identified

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Irritant Mixture

Components

1. 2-Butoxyethanol
Concentration 3 - 8 % (By Weight)
EC no. 203-905-0
CAS no. 111-76-2
Index no. 603-014-00-0
- Skin corrosion/irritation, Cat. 2
- Serious eye damage/eye irritation, Cat. 2
- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4

H302 Harmful if swallowed
H312 Harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled

2. Isopropanol
Concentration 3 - 8 % (By Weight)
EC no. 414-810-0
CAS no. 67-63-0
Index no. 607-403-00-6
- Flammable liquids, Cat. 2
- Eye damage/irritation, Cat. 2A
- Specific target organ toxicity (single exposure), Cat. 3

H225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

3. Sodium metasilicate pentahydrate
Concentration 3 - 8 % (By Weight)
EC no. 229-912-9
CAS no. 6834-92-0
Index no. 014-010-00-8
- Specific target organ toxicity (single exposure), Cat. 3
- Skin corrosion/irritation, Cat. 1B
**SECTION 4: First-aid measures**

4.1 **Description of necessary first-aid measures**

**General advice**
Do not breathe dust or mists. Wear protective rubber gloves and chemical splash goggles when using this product. Mix ONLY with water. Wash thoroughly after handling.

**If inhaled**
Remove person to fresh air and keep comfortable for breathing. Call a Poison Control Center or doctor for treatment advice.

**In case of skin contact**
Wash with plenty of water. Take off contaminated clothing and wash before reuse. Call a Poison Control Center or doctor for treatment advice if irritation persists.

**In case of eye contact**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor for treatment advice.

**If swallowed**
Rinse out mouth. Do NOT induce vomiting. Call a Poison Control Center or doctor if you feel unwell.

**Personal protective equipment for first-aid responders**
Self-contained breathing apparatus.

4.2 **Most important symptoms/effects, acute and delayed**
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3 **Indication of immediate medical attention and special treatment needed, if necessary**
Treat exposure symptomatically. In all cases where large quantities have been ingested or inhaled, contact a doctor or Poison Control Center immediately.

**SECTION 5: Fire-fighting measures**

5.1 **Suitable extinguishing media**
Use water spray, fog or foam.

5.2 **Specific hazards arising from the chemical**
None known.

5.3 **Special protective actions for fire-fighters**
Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**
Remove all persons from the vicinity. No responsive action should be taken without proper training.

**SECTION 6: Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures**
Initiate spill containment procedures immediately using containment or absorption methods. Keep people away from area. Put on appropriate protective equipment (see Section 8).

6.2 **Environmental precautions**
Do not let product enter drains.
Methods and materials for containment and cleaning up
Do not allow spilled material to enter sewers, waterways or soil. Neutralize with water. Mop, sweep or otherwise collect spilled material and hold for disposal. Consult local government authorities for allowable disposal methods. After removal, rinse area completely with water to remove residue.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Eating, drinking and smoking is prohibited. Wash hands with soap and water after handling.

7.2 Conditions for safe storage, including any incompatibilities
Keep out of reach of children. Keep containers tightly closed when not in use. Store in a well ventilated area between 60-100°F (15-38°C). Avoid ignition sources.

Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. 2-Butoxyethanol (CAS: 111-76-2 EC: 203-905-0)
   PEL (Inhalation): 240 mg/m3 (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 20 ppm (Cal/OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   REL (Inhalation): 5 ppm (NIOSH)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 20 ppm
   97 mg/m3
   California permissible exposure limits for chemical contaminants
   (Title 8, Article 107)/Skin
   TWA (Inhalation): 50 ppm
   240 mg/m3; USA (OSHA)
   USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants/Skin designation
   The value in mg/m3 is approximate
   TWA (Inhalation): 5 ppm
   24 mg/m3; USA (NIOSH)
   USA. NIOSH Recommended Exposure Limits/Potential for dermal absorption
   TWA (Inhalation): 20 ppm; USA (ACGIH)
   USA. ACGIH Threshold Limit Values (TLV)/Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans
   TLV® (Inhalation): 20 ppm; USA (ACGIH)
   OSHA Annotated Table Z-1, www.osha.gov

2. Isopropyl alcohol (CAS: 67-63-0)
   PEL (Inhalation): 980 mg/m3 (OSHA)
   OSHA Annotated Table Z-1, www.osha.gov
   PEL (Inhalation): 400 ppm, (ST) 500 ppm (Cal/OSHA)
8.2 Appropriate engineering controls
Use with adequate ventilation to maintain exposure limits below listed thresholds.

8.3 Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection**
Wear chemical splash goggles or face shield when using this product.

**Skin protection**
Wear protective rubber gloves and a long sleeved shirt to prevent contact.

**Body protection**
Wash thoroughly after use and before eating, smoking, or using the bathroom. Avoid contamination of clothing or shoes, and wash any contaminated items before reuse. If possible, avoid wearing contact lenses when using this product.

**Respiratory protection**
If inhalable particles of dusts or mists may occur during use, wear NIOSH approved respiratory protection.

**Thermal hazards**
No data available.

**Environmental exposure controls**
Do not let product enter drains.

### SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form (physical state, color, etc.)</td>
<td>Green liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Sassafras</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>&lt;11.5 (1% solution)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&lt;0°F</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Non-Combustible</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td>No data available.</td>
</tr>
<tr>
<td>Upper/lower explosive limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td>Relative density</td>
<td>&gt;1.0</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>100% in 120°F Water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt;1.0</td>
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<tr>
<td>Explosive properties</td>
<td>No data available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**Other safety information**
No data available.
SECTION 10: Stability and reactivity

10.1 Reactivity
Product is not reactive under normal storage and usage conditions. Mix this product ONLY with water.

10.2 Chemical stability
Product is stable under normal storage and usage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials
Strong oxidizers, bases and acids.

10.6 Hazardous decomposition products
None are expected under normal storage and usage conditions.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation

Skin corrosion/irritation
Skin contact may cause irritation or pain and redness.

Serious eye damage/irritation
Eye contact may cause irritation or pain, redness and watering.

Respiratory or skin sensitization
Inhalation may cause coughing, choking and respiratory tract irritation.

Germ cell mutagenicity
No data available.

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
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.
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.
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.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
No known significant effects or critical hazards.
STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
Ingestion may cause stomach and throat pain.

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
No specific data available for this mixture.

Persistence and degradability
No data available on product

Bioaccumulative potential
No data available on product

Mobility in soil
No data available.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Disposal of the product
Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging
Dispose of as unused product.

Other disposal recommendations
Avoid disposal of this product. Use complete contents according to directions. Do not release contents into a municipal sewer except through normal dilution and usage. Do not release contents onto the ground or into any body of water. Dispose of empty container by offering for recycling if available, or into a landfill. Follow all applicable state and local regulations.

SECTION 14: Transport information

DOT (US)
Non-regulated liquid

Note: Certain package sizes of this product may qualify for exceptions to DOT’s packaging, labeling and other requirements, and thus may have different DOT shipping names. For bulk shipments, see the shipping documents.
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
Ethylene glycol monobutyl ether, CAS: 111-76-2
Isopropyl alcohol, CAS number: 67-63-0

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
Ethylene glycol monobutyl ether, CAS: 111-76-2
Isopropyl alcohol, CAS number: 67-63-0

Pennsylvania Right To Know Components
Ethylene glycol monobutyl ether, CAS: 111-76-2
Isopropyl alcohol, CAS number: 67-63-0
Disodium metasilicate pentahydrate, CAS-No. 10213-79-3

New Jersey Right To Know Components
Ethylene glycol monobutyl ether, CAS: 111-76-2
Isopropyl alcohol, CAS number: 67-63-0
Disodium metasilicate pentahydrate, CAS-No. 10213-79-3

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

The information herein is believed to be correct, but is given without warranty or guaranty of any kind, express or implied. The hazards provided in this Safety Data Sheet apply to the product in its concentrated form, and may differ significantly after dilution.

16.1 Further information/disclaimer
DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Crown Chemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Crown Chemical, Inc. has been advised of the possibility of such damages.