Safety Data Sheet

SECTION 1: Identification

1.1 Product identifier
Product name: SolarSolve
Product number: 210
Brand: Crown Chemical, Inc.

1.2 Other means of identification
SolarSolve

1.3 Recommended use of the chemical and restrictions on use
Solvent degreaser and stain remover

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; Flammable liquid and vapor.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
- Flammable liquids, Cat. 3

2.2 GHS label elements, including precautionary statements

Pictogram

1. Exclamation mark; 2. Flame

Signal word: Warning

Hazard statement(s)
H315: Causes skin irritation
H319: Causes serious eye irritation
H226: Flammable liquid and vapor
Precautionary statement(s)

P264  Wash hands & skin thoroughly after handling.
P280  Wear protective gloves/eye protection/face protection.
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.
P332+P313  If skin irritation occurs: Get medical advice/attention.
P362+P364  Take off contaminated clothing and wash it before reuse.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313  If eye irritation persists: Get medical advice/attention.
P210  Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233  Keep container tightly closed.
P240  Ground/bond container and receiving equipment.
P241  Use explosion-proof electrical/ventilating/lighting/…/ equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P303+P361+P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378  In case of fire: Use … to extinguish.
P403+P235  Store in a well-ventilated place. Keep cool.
P501  Dispose of contents and container in accordance with all local, state, national and international regulations.

2.3 Other hazards which do not result in classification

None identified

Statement regarding ingredients of unknown toxicity

Irritant Mixture

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Irritant Mixture; Flammable Mixture

Hazardous components

1. 2-Butoxyethanol

Concentration  20 - 30 % (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. Naphtha (petroleum), heavy alkylate

Concentration  40 - 50 % (By Weight)
CAS no.  64741-65-7

- Carcinogenicity, Cat. 1B
- Germ cell mutagenicity, Cat. 1B
- Aspiration hazard, Cat. 1

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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. Keep away from heat, sparks, open flame and hot surfaces. No smoking. Keep container tightly closed. Ground container and receiving equipment. Take precautionary measures against static discharge.

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 fire, use chemical foam to extinguish.

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
See Section 11 for additional information.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Treat exposure symptomatically. In all cases of eye contact, or if 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 chemical foam, carbon dioxide or water spray.

5.2 Specific hazards arising from the chemical
None known

5.3 Special protective actions for fire-fighters
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).
6.3 **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**

Put on appropriate protective equipment (see Section 8).

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**SECTION 7: Handling and storage**

7.1 **Precautions for safe handling**

Avoid contact with eyes, skin or clothing. Avoid inhalation of dust or mists. Use in a well ventilated area. Wash thoroughly after handling.

7.2 **Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed when not in use. Store in a well ventilated area inaccessible to small children. Store between 50-100°F (15-38°C). Keep away from heat, sparks, open flame and hot surfaces. Ground container and receiving equipment. Take precautionary measures against static discharge.

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**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

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>
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<tbody>
<tr>
<td>Appearance/form (physical state, color, etc.)</td>
<td>Colorless Liquid</td>
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<tr>
<td>Odor</td>
<td>Citrus</td>
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<tr>
<td>Odor threshold</td>
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<tr>
<td>pH</td>
<td>N/A</td>
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<tr>
<td>Melting point/freezing point</td>
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<td>Initial boiling point and boiling range</td>
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<tr>
<td>Flash point</td>
<td>&gt;74°F (23°C)</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Upper/lower flammability limits</td>
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<tr>
<td>Upper/lower explosive limits</td>
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<td>Vapor pressure</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility(ies)</td>
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<tr>
<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Viscosity</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
NEVER mix this product with other chemicals. Mix this product ONLY with water.

10.4 Conditions to avoid
No data available

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
No data available

Reproductive toxicity
No data available

Summary of evaluation of the CMR properties
No data available

STOT-single exposure
No data available

STOT-repeated exposure
No data available

Aspiration hazard
Irritation to respiratory tract, mouth, throat and stomach.

Additional information
No known significant effects or critical hazards.

SECTION 12: Ecological information

Toxicity
No specific data available for this mixture. Sodium Hypochlorite is known to be toxic to aquatic life.

Persistence and degradability
No data

Bioaccumulative potential
No data

Mobility in soil
No data

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)
DOT Proper Shipping Name: NA 1993, Compounds, cleaning liquid, 3, PG III (Contains Petroleum Distillates)

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

Massachusetts Right To Know Components
Ethylene glycol monobutyl ether, CAS: 111-76-2

New Jersey Right To Know Components
Ethylene glycol monobutyl ether, CAS: 111-76-2

Pennsylvania Right To Know Components
Ethylene glycol monobutyl ether, CAS: 111-76-2

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.

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

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

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

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.