Section 1. Identification

Product Name: 45-1 Cableguard Walk Surface Base Coat (Contact Adhesive)
Relevant Identified Uses of the Substance or Mixture: Adhesive
Supplier: The D.S. Brown Company
300 East Cherry Street
North Baltimore, Ohio 45872
Company Phone Number: 419-257-3561; 419-257-2200/fax
Information Department: Environment protection department
In Case of Emergency: Chemtrec: Day or Night within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Section 2. Hazards Identification

Classification of the Substance or Mixture:
- GHS02 Flame
  Flam. LIq. 2 H225 Highly flammable liquid and vapor.
- GHS08 Health hazard
  Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- GHS07
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  STOT SE 3 H336 May cause drowsiness or dizziness.
Section 2. Hazards Identification cont’d.

LABEL ELEMENTS

GHS Label Elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms:

\[
\text{GHS02} \quad \text{GHS07} \quad \text{GHS08}
\]

Signal Word: Danger

Hazard Statements: Highly flammable liquid and vapor.
- Causes skin irritation.
- Causes serious eye irritation.
- Suspected of damaging fertility or the unborn child.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure.
- May be fatal if swallowed and enters airways.

Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Ground/bond container and receiving equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
- Continue rinsing.
- Specific treatment (see on this label).
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- Do NOT induce vomiting.
- In case of fire: Use for extinction: CO2, powder or water spray.
Section 2. Hazards Identification cont’d.

Hazard Statements:
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification System:
- NFPA ratings (scale 0 - 4)
  - Health = 2
  - Fire = 3
  - Reactivity = 0
- HMIS - ratings (scale 0 - 4)
  - Health = 2
  - Fire = 3
  - Physical Hazard = 0

Other Hazards:
- Results of PBT and vPvB:
  - PBT: Not applicable.
  - vPvB: Not applicable.

Section 3. Composition/Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture

Hazardous Components:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), solvent-refined light</td>
<td>64741-84-0</td>
<td>25-50%</td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>10-25%</td>
</tr>
<tr>
<td>toluene</td>
<td>108-88-3</td>
<td>10-25%</td>
</tr>
<tr>
<td>magnesium oxide</td>
<td>1309-48-4</td>
<td>≤2.5%</td>
</tr>
<tr>
<td>zinc oxide</td>
<td>1314-13-2</td>
<td>≤1.0%</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

DESCRIPTION OF FIRST AID MEASURES

After Inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.

After Skin Contact:
- Immediately wash with water and soap and rinse thoroughly.
Section 4. First Aid Measures  

**After Eye Contact**: Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

**After Swallowing**: Do not induce vomiting; immediately call for medical help.

**Information for Doctor Most Important Symptoms and Effects, Both Acute and Delayed**: No further relevant information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**: No further relevant information available.

Section 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA**

**Suitable Extinguishing Agents**: CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

**ADVICE FOR FIREFIGHTERS**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Protective Equipment**: Protective clothing and respiratory protective device.

Section 6. Accidental Release Measures

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**Personal**: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

**Environmental Precautions**: Do not allow to enter sewers/ surface or ground water.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP**

**Containment and Clean Up**: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations. Ensure adequate ventilation.

**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.
Section 6. Accidental Release Measures cont’d.

PROTECTIVE ACTION CRITERIA FOR CHEMICALS

<table>
<thead>
<tr>
<th>PAC-1</th>
<th>acetone</th>
<th>200 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>67 ppm</td>
</tr>
<tr>
<td>1309-48-4</td>
<td>magnesium oxide</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>zinc oxide</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2</th>
<th>acetone</th>
<th>3200* ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>560 ppm</td>
</tr>
<tr>
<td>1309-48-4</td>
<td>magnesium oxide</td>
<td>120 mg/m³</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>zinc oxide</td>
<td>15 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3</th>
<th>acetone</th>
<th>5700* ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>3700* ppm</td>
</tr>
<tr>
<td>1309-48-4</td>
<td>magnesium oxide</td>
<td>730 mg/m³</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>zinc oxide</td>
<td>2,500 mg/m³</td>
</tr>
</tbody>
</table>

Section 7. Handling and Storage

Precautions for Safe Handling:
- Open and handle receptacle with care.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES

Recommendations:
- Keep ignition sources away. Do not smoke.
- Protect against electrostatic charges.
- Keep container closed when not in use.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage
- Requirements to Be Met by Storerooms and Receptacles:
  - Store in a cool location away from direct heat.

  Information About Storage in One Common Storage Facility Receptacles:
  - Store away from oxidizing agents.
Section 7. Handling and Storage  cont’d.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS

Recommendation : Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

Specific End Use(s) : No further relevant information available.

Section 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:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>TLV Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>2400 mg/m³, 1000 ppm</td>
<td>590 mg/m³, 250 ppm</td>
<td>1187 mg/m³, 500 ppm</td>
<td>594 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>200 ppm</td>
<td>560 mg/m³, 150 ppm</td>
<td>375 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>1309-48-4 magnesium oxide</td>
<td>15* mg/m³ fume; *total particulate</td>
<td>75 mg/m³, 20 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BEI
### Section 8. Exposure Controls/Personal Protection cont’d.

<table>
<thead>
<tr>
<th>Control Parameters</th>
<th>1314-13-2 zinc oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
<td>Long-term value: 15* 5** mg/m³</td>
</tr>
<tr>
<td></td>
<td>*total dust **respirable fraction and fume</td>
</tr>
<tr>
<td><strong>REL</strong></td>
<td>Short-term value: 10** mg/m³</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 15* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*dust only **fume</td>
</tr>
<tr>
<td><strong>TLV</strong></td>
<td>Short-term value: 10* mg/m³</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>*as respirable fraction</td>
</tr>
</tbody>
</table>

### INGREDIENTS WITH BIOLOGICAL LIMIT VALUES

#### 67-64-1 acetone
- **BEI**: 50 mg/L
  - Medium: urine
  - Time: end of shift
  - Parameter: Acetone (nonspecific)

#### 108-88-3 toluene
- **BEI**: 0.02 mg/L
  - Medium: blood
  - Time: Prior to last shift of workweek
  - Parameter: Toluene
- **0.03 mg/L**
  - Medium: urine
  - Time: end of shift
  - Parameter: Toluene
- **0.3 mg/g creatinine**
  - Medium: urine
  - Time: end of shift
  - Parameter: o-Cresol with hydrolysis (background)

### ADDITIONAL OCCUPATIONAL EXPOSURE LIMIT VALUES FOR POSSIBLE HAZARDS DURING PROCESSING

#### 110-54-3 n-hexane
- **PEL**: Long-term value: 1800 mg/m³, 500 ppm
- **REL**: Long-term value: 180 mg/m³, 50 ppm
- **TLV**: Long-term value: 176 mg/m³, 50 ppm
  - Skin; BEI

#### 110-82-7 cyclohexane
- **PEL**: Long-term value: 1050 mg/m³, 300 ppm
- **REL**: Long-term value: 1050 mg/m³, 300 ppm
- **TLV**: Long-term value: 344 mg/m³, 100 ppm
Section 8. Exposure Controls/Personal Protection  cont’d.

142-82-5 heptane

<table>
<thead>
<tr>
<th></th>
<th>Long-term value: 2000 mg/m³, 500 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 350 mg/m³, 85 ppm</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 1800* mg/m³, 440* ppm</td>
</tr>
<tr>
<td></td>
<td>*15-min</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 2050 mg/m³, 500 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 1640 mg/m³, 400 ppm</td>
</tr>
</tbody>
</table>

Additional Information : The lists that were valid during the creation were used as basis.
Exposure Controls Personal Protective Equipment : (See listings below.)
General Protective and Hygienic Measures : Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Store protective clothing separately.
    Avoid contact with the eyes and skin.
Breathing Equipment : Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
Protection of Hands :
    Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of Gloves : Nitrile rubber, NBR
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration Time of Glove Material : The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye Protection :
    Tightly sealed goggles
    Safety glasses with side shields.
Body Protection : Protective work clothing.
Section 9. Physical and Chemical Properties

- **Appearance**
  - Form: Liquid
  - Color: Light yellow
  - Odor: Characteristic
  - Odor Threshold: Not determined.
  - pH: Not determined.
- **CHANGE IN CONDITION**
  - Melting Point: Not determined.
  - Boiling Point: 55 °C (131 °F)
  - Flash Point: -21 °C (-6 °F)
  - Ignition Temperature: 465 °C (869 °F)
  - Auto Igniting: Product is not self-igniting.
  - Danger of Explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **FLAMMABILITY LIMITS**
  - Lower: 1.2 Vol %
  - Upper: 13.0 Vol %
  - Vapor Pressure at 20 °C (68 °F): 233 hPa (175 mm Hg)
- **SPECIFIC GRAVITY**
  - Relative Density: Not determined.
  - Vapour Density: Not determined.
  - Evaporation Rate: Not determined.
- **Solubility in / Miscibility with Water**: Not miscible or difficult to mix.
- **VISCOSITY**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **SOLVENT CONTENT**
  - Organic Solvents: 74.3%
  - Solid Content: 28.6%
- **Other Information**: VOC: = 3.34 lbs/gal
  - Weight per gallon: = 7.17 lbs

Section 10. Stability and Reactivity

- **Reactivity**: No further relevant information available.
- **Possibility of Hazardous Reactions**: No further information is available.
- **Conditions to Avoid**: Heat, flames, sparks.
- **Incompatible Materials**: Strong oxidizers, acids, and bases.
- **Hazardous Decomposition Products**: Carbon monoxide and carbon dioxide
Section 11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute Toxicity**: LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Toluene</th>
<th>Oral LD50</th>
<th>5000 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dermal LD50</td>
<td>12124 mg/kg (rabbit)</td>
</tr>
<tr>
<td></td>
<td>Inhalative LC50/4 h</td>
<td>5320 mg/l (mouse)</td>
</tr>
</tbody>
</table>

**Primary Irritant Effect**: On the skin: Irritant to skin and mucous membranes. On the eye: Causes serious eye irritation. Vapors may be irritating to the eyes.

**Sensitization**: No sensitizing effects known

**Additional Toxicological Information**: The product shows the following dangers according to internally approved calculation methods for preparations:

- Harmful
- Irritant

**CARCINOGENIC CATEGORIES**

- **IARC (International Agency for Research on Cancer)**: 108-88-3 toluene 3
- **NTP (National Toxicology Program)**: None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**: None of the ingredients is listed.

Section 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**: At present there are no ecotoxicological assessments.
- **Results of PBT and vPvB Assessment**
  - **PBT**: Not applicable.
  - **vPvB**: Not applicable.
- **Other Adverse Effects**: No further relevant information available.
Section 13. Disposal Considerations

Waste Treatment Methods
Recommendation: Must be specially treated adhering to official regulations.

Uncleaned Packagings
Recommendation: Disposal must be made according to official regulations.

Section 14. Transport Information

UN Number
DOT, IMDG, IATA: UN1133

UN Proper Shipping Name
DOT, IMDG, IATA: ADHESIVES

Transport Hazard Classes
DOT
- Class: 3 Flammable liquids.
- Label: 3

IMDG, IATA
- Class: 3 Flammable liquids.
- Label: 3

Packaging Group
DOT, IMDG, IATA: II

Environmental Hazards: Not applicable.

Special Precautions for User: Warning: Flammable liquids

Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN “Model Regulation”
- UN1133, ADHESIVES, 3, II
Section 15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR SUBSTANCE/MIXTURE

<table>
<thead>
<tr>
<th>SARA</th>
<th>Section 355 (Extremely Hazardous Substances)</th>
<th>None of the ingredients is listed.</th>
</tr>
</thead>
</table>
|      | Section 313 (Specific Toxic Chemical Listings) | 108-88-3  toluene  
1314-13-2  zinc oxide |
| TSCA (Toxic Substances Control Act) | All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements. |
| PROPOSITION 65 | Chemicals Known to Cause Cancer: | None of the ingredients is listed. |
|                 | Chemicals Known to Cause Reproductive Toxicity for Females | None of the ingredients is listed. |
|                 | Chemicals Known to Cause Reproductive Toxicity for Males | None of the ingredients is listed. |
|                 | Chemicals Known to Cause Developmental Toxicity | 108-88-3  toluene |
| (DSL) Canada Domestic Substance List | All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements. |
| New Jersey Right-to-Know List | 67-64-1  acetone  
108-88-3  toluene  
1309-48-4  magnesium oxide  
1314-13-2  zinc oxide |
| New Jersey Special Hazardous Substance List | 67-64-1  acetone F3  
108-88-3  toluene TE, F3 |
| Pennsylvania Right-to-Know List | 67-64-1  acetone  
108-88-3  toluene  
1309-48-4  magnesium oxide  
1314-13-2  zinc oxide |
| Pennsylvania Special Hazardous Substance List | 67-64-1  acetone E  
108-88-3  toluene E  
1314-13-2  zinc oxide E |
Section 15. Regulatory Information

CANCEROGENICITY CATEGORIES

EPA (Environmental Protection Agency):
- 67-64-1 acetone I
- 108-88-3 toluene II
- 1314-13-2 zinc oxide D, I, II

TLV (Threshold Limit Value established by ACGIH):
- 67-64-1 acetone A4
- 108-88-3 toluene A4
- 1309-48-4 magnesium oxide A4

MAK (German Maximum Workplace Concentration):
None of the ingredients is listed.

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

NATIONAL REGULATIONS

Water Hazard Class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

Section 16. Other Information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, D.S. Brown Company makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will D.S. Brown Company or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

Department Issuing SDS: Environment protection department.

Creation Date: 5/2/2019

Date of Preparation / Last Revision: 5/2/2019

Abbreviations and Acronyms:
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
Section 16. Other Information  cont’d.

: LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1