



# SAFETY DATA SHEET

## Harvard Chemical Research, Inc.

Issue Date 28-May-2014

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Version 1

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product identifier

Product Name Upholstery Ext. Cleaner

#### Other means of identification

Product Code 1133  
Synonyms None

#### Recommended use of the chemical and restrictions on use

Recommended Use Upholstery Extraction Detergent.  
Uses advised against No information available

#### Details of the supplier of the safety data sheet

Manufacturer Address  
Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

#### Emergency telephone number

Company Phone Number 1-404-761-0657  
24 Hour Emergency Phone Number 800-424-9300  
Emergency Telephone Chemtrec 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                   |            |
|-------------------|------------|
| Flammable liquids | Category 4 |
|-------------------|------------|

#### Label elements

#### Emergency Overview

#### Warning

Combustible liquid

|                  |                       |             |
|------------------|-----------------------|-------------|
| Appearance Clear | Physical state liquid | Odor orange |
|------------------|-----------------------|-------------|

#### Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Wear protective gloves and eye protection.

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

• Causes mild skin irritation

Unknown Acute Toxicity                      % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                   | CAS No.  | Weight-% | Trade Secret |
|---------------------------------|----------|----------|--------------|
| Ethylene Glycol Monobutyl Ether | 111-76-2 | <10      | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**First aid measures**

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin Contact</b> | Rinse with clear water.  |
| <b>Inhalation</b>   | Remove to fresh air. If breathing does not return to normal, seek medical attention.                                 |
| <b>Ingestion</b>    | Immediately drink large quantities of water. Get medical attention. Do not induce vomiting.                          |

**Most important symptoms and effects, both acute and delayed**

**Symptoms**                                      No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**                              Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray or fog, foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

Fumes produced under fire conditions are toxic and irritating.

**Hazardous combustion products** Heated drums may explode.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** For large spills, eliminate potential sources of ignition. For small spills, soak up with noncombustible absorbent and place in drums for disposal. Flush area with water to remove trace residue. Collect flush solutions for disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container closed when not in use. Keep away from oxidizing materials. Keep away from flames. Keep out of reach of children.

**Incompatible materials** Strong acids. OXIDIZERS.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name                               | ACGIH TLV   | OSHA PEL   | NIOSH IDLH   |
|---|-------------|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |

**Appropriate engineering controls**

**Engineering Controls** Local exhaust use explosion-proof ventilation as required to control vapor concentration.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear Neoprene or protective rubber gloves. Do not wear tennis shoes or other porous or fabric footwear while applying this product, as the product will saturate them and may burn your skin. Wear water/solvent proof boots and keep your feet out of the product.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | liquid                   | <b>Odor</b>           | orange                   |
| <b>Appearance</b>     | Clear                    | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <b><u>Property</u></b>               | <b><u>Values</u></b>     | <b><u>Remarks • Method</u></b> |
|--------------------------------------|--------------------------|--------------------------------|
| <b>pH</b>                            | 7.5                      |                                |
| <b>Melting point/freezing point</b>  | No information available |                                |
| <b>Boiling point / boiling range</b> | 100 >212°F               |                                |
| <b>Flash point</b>                   | 90 194°F                 |                                |
| <b>Evaporation rate</b>              | >1                       |                                |
| <b>Flammability (solid, gas)</b>     | No information available |                                |
| <b>Flammability Limit in Air</b>     |                          |                                |
| <b>Upper flammability limit:</b>     | No information available |                                |
| <b>Lower flammability limit:</b>     | No information available |                                |
| <b>Vapor pressure</b>                | No information available |                                |
| <b>Vapor density</b>                 | >1                       |                                |
| <b>Specific Gravity</b>              | No information available |                                |
| <b>Water solubility</b>              | Miscible in water        |                                |
| <b>Solubility in other solvents</b>  | No information available |                                |
| <b>Partition coefficient</b>         | No information available |                                |
| <b>Autoignition temperature</b>      | No information available |                                |
| <b>Decomposition temperature</b>     | No information available |                                |
| <b>Kinematic viscosity</b>           | No information available |                                |
| <b>Dynamic viscosity</b>             | No information available |                                |
| <b>Explosive properties</b>          | No information available |                                |
| <b>Oxidizing properties</b>          | No information available |                                |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | 8.16                     |
| <b>Bulk density</b>     | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Heated drums may explode.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

Strong acids. OXIDIZERS.

**Hazardous Decomposition Products**Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Unidentified organic compounds may be formed during combustion.**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                            |   |
|----------------------------|---|
| <b>Product Information</b> | No data available                       |
| <b>Inhalation</b>          | Irritation and difficulty in breathing. |
| <b>Eye contact</b>         | Severely irritating to eyes.            |
| <b>Skin Contact</b>        | No data available.                      |
| <b>Ingestion</b>           | Gastric pain and vomiting.              |

| Chemical Name                               | Oral LD50           | Dermal LD50           | Inhalation LC50       |
|---|---------------------|-----------------------|-----------------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | = 470 mg/kg ( Rat ) | = 99 mg/kg ( Rabbit ) | = 450 ppm ( Rat ) 4 h |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

| Chemical Name                               | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | A3    | Group 3 | -   | -    |

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** % of the mixture consists of ingredient(s) of unknown toxicity  
The following values are calculated based on chapter 3.1 of the GHS document .

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

7.06% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name                               | Algae/aquatic plants | Fish   | Crustacea  |
|---|----------------------|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | -                    | 2950: 96 h Lepomis macrochirus mg/L LC50 1490: 96 h Lepomis macrochirus mg/L LC50 static | 1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50 |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical Name                               | Partition coefficient |
|---|-----------------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | 0.81                  |

**Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container.

### 14. TRANSPORT INFORMATION

**DOT**

Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Complies        |
| <b>DSL/NDSL</b>      | Complies        |
| <b>EINECS/ELINCS</b> | Complies        |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Complies        |
| <b>KECL</b>          | Complies        |
| <b>PICCS</b>         | Complies        |
| <b>AICS</b>          | Complies        |

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                              | SARA 313 - Threshold Values % |
|--|-------------------------------|
| Ethylene Glycol Monobutyl Ether - 111-76-2 | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name                               | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health hazards 0 | Flammability 0 | Instability 0      | Physical and Chemical Properties - |
| <b>HMIS</b> | Health hazards 0 | Flammability 0 | Physical hazards 0 | Personal protection X              |

Prepared By Moira Blackflower  
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 Revision Note

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet