

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Lifeproof™ Floor Polish Remover**  
Product Code : 316527131  
Trade Name/Synonyms : LifeProof Heavy Duty Stripper  
Recommended Use : Heavy Duty stripper to remove built-up floor polish.  
Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.

**Supplier's name and address:**

Armstrong Flooring, Inc.  
2500 Columbia Ave.  
Lancaster, PA, USA 17603

Information Telephone No. : (800) 233-3823  
Website Address : <http://www.floorexpert.com>  
24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

### SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Skin corrosion/irritation, Category 1  
Serious eye damage/eye irritation, Category 1

**GHS Pictograms**



**Signal Word**

Danger.

**Hazard Statements**

Causes severe skin burns and eye damage.

**Precautionary Statements**

Do not breathe gas/mist/vapors/spray. Wear protective gloves, eye protection and face protection. Wash hands and exposed skin thoroughly after handling. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws.

**Hazards Not Otherwise Classified**

None.

**% with Unknown Acute Toxicity**

< 1% of this product consists of ingredients with unknown acute toxicity.

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients      | CAS #    | % (by weight) |
|------------------|----------|---------------|
| 2-Butoxyethanol  | 111-76-2 | 1.00 – 5.00   |
| Monoethanolamine | 141-43-5 | 0.1 – 1       |

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

## SECTION 4 – FIRST AID MEASURES

- General** : Immediately call a Poison Center or doctor if you feel unwell. Chemical burn symptoms may be delayed.
- Inhalation** : Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of soap and water. If irritations or symptoms develop, seek medical attention/advice.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- Ingestion** : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.
- Notes for Physician** : Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

### Signs and symptoms of short-term (acute) exposure

- Inhalation* : Symptoms may include coughing and shortness of breath.
- Skin* : Symptoms may include redness and itching. Some components may be absorbed through the skin.
- Eyes* : Symptoms may include redness, itching, or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur. If large amounts are ingested, symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

### Effects of long-term (chronic) exposure

- : Prolonged inhalation may cause adverse lung effects with symptoms such as pulmonary edema (fluid accumulation).

### Indication of need for immediate medical attention or special treatment

- : Difficulty breathing persists after removing the person to fresh air.  
Any exposure to the eye which causes irritation or damage.  
Exposure to the skin that causes a chemical burn.  
Ingestion.

## SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, alcohol resistant foam or water spray.
- Unsuitable extinguishing media** : Water jet. May spread fire.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, ammonia, nitrogen oxides (NO<sub>x</sub>) and other toxic vapors and gases which are common to thermal degradation of organic compounds.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.
- Environmental precautions** : Do not allow large quantities to enter drains.
- Fire hazards/conditions of flammability**

: Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Ammonia gas may be liberated at high temperatures.

**Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**

: Not flammable under normal conditions of handling.

**NFPA Rating**

: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

*Health: 3 Flammability 1 Instability 0 Special Hazards: None*

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions**

: Corrosive! Restrict access to area until completion of clean-up. All persons dealing with clean-up should be properly trained for spill response and wear the appropriate chemically protective equipment.

**Protective equipment**

: Refer to Section 8 for additional information on acceptable personal protective equipment.

**Emergency Procedures**

: This product does not contain any chemicals that must be reported to the EPA in the event of a spill or release. For advice on chemical spills with this product, call the emergency number listed in Section 1.

US CERCLA Reportable quantity (RQ): None.

**Methods and materials for containment and cleaning up**

: Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Dike far ahead of liquid spill for later disposal. Gather up spilled material and place in suitable container for later disposal (see Section 13). Residue of product, while still wet, can be cleaned up with warm soapy water. After cleaning, flush away traces with water. Notify the appropriate authorities as required.

**Prohibited materials**

: None known.

**Environmental precautions**

: Do not allow large amounts of this product to enter drains or waterways. Do not allow material to contaminate ground water system.

**Reference to other sections**

: See Section 13 for disposal information.

## SECTION 7 – HANDLING AND STORAGE

**Safe handling procedures**

: Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists of this product. Wear protective clothing and equipment as recommended in Section 8. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly closed.

**Storage requirements**

: Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Keep tightly closed when not in use. Thoroughly rinse empty container before disposal.

**Incompatible materials**

: See Section 10.

**Special packaging materials**

: Always keep in containers made of the same materials as the supply container.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible Exposure Limits**

: Below are exposure limits for the components in the product.

| Ingredients         | CAS #     | ACGIH TLV |                             | OSHA PEL      |                             |
|---------------------|-----------|-----------|-----------------------------|---------------|-----------------------------|
|                     |           | TWA       | STEL                        | PEL           | STEL                        |
| 2-Butoxyethanol     | 111-76-2  | 20 ppm    | N/Av                        | 50 ppm (skin) | N/Av                        |
| Monoethanolamine    | 141-43-5  | 3 ppm     | 6 ppm                       | 3 ppm         | 6 ppm                       |
| Potassium hydroxide | 1310-58-3 | N/Av      | 2 mg/m <sup>3</sup> Ceiling | N/Av          | N/Av                        |
| Sodium hydroxide    | 1310-73-2 | N/Av      | 2 mg/m <sup>3</sup> Ceiling | N/Av          | 2 mg/m <sup>3</sup> Ceiling |

- Engineering Controls** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor generated from the handling of this product.
- Personal Protection Equipment**
- Eye / face protection** : Wear safety goggles. Wear a face shield if splashing is possible.
  - Skin protection** : Wear gloves which are impervious to the material. Glove materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended. Consult with glove manufacturers regarding breakthrough time for this material.
  - Body protection** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.
  - Respiratory protection** : If work process generates excessive quantities of vapor, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.
- Site safety equipment** : An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands thoroughly. Remove contaminated clothing and wash it thoroughly before reuse. Clean all equipment and clothing at end of each work shift.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

|  |  |   |                 |
|--|--|---|-----------------|
| <b>Physical state</b>  | : Liquid   | <b>Appearance</b>                             | : Green         |
| <b>Odor</b>  | : Citrus odor  | <b>Odor threshold</b>                         | : N/Av          |
| <b>pH</b>  | : 12.0 – 13.0  | <b>Specific gravity</b>                       | : 1.00          |
| <b>Boiling point</b>   | : 212°F (100°C)  | <b>Coefficient of water/oil distribution</b>  | : N/Av          |
| <b>Melting/Freezing point</b>  | : N/Av   | <b>Solubility in water</b>                    | : Soluble       |
| <b>Vapor pressure (mm Hg @ 20°C / 68°F)</b>                                | : N/Av   | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av          |
| <b>Vapor density (Air = 1)</b>   | : N/Av   | <b>Volatiles (% by wt, includes water)</b>    | : 96 %          |
| <b>Volatile organic compounds (VOCs)</b>                                   | : 3.9%, per CARB regulations   |   |                 |
| <b>Particle size</b>   | : N/Av   | <b>Flammability classification</b>            | : Not flammable |
| <b>Flash point</b>   | : >93.3°C (200°F)  | <b>Lower flammable limit (% by vol)</b>       | : Not available |
| <b>Flash point method</b>  | : Setafash closed  | <b>Upper flammable limit (% by vol)</b>       | : Not available |
| <b>Auto-ignition temperature</b>   | : N/Av   | <b>Decomposition temperature</b>              | : Not available |
| <b>Viscosity</b>   | : Not available  | <b>Oxidizing properties</b>                   | : Not available |
| <b>Explosion data: Sensitivity to mechanical impact / static discharge</b> | : Not expected to be sensitive to mechanical impact or static discharge. |   |                 |

## SECTION 10 – REACTIVITY AND STABILITY INFORMATION

|   |   |
|---|---|
| <b>Reactivity</b>                             | : Not reactive.   |
| <b>Stability</b>                              | : Stable under the recommended storage and handling conditions prescribed.        |
| <b>Hazardous reactions</b>                    | : Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                    | : High temperatures.  |
| <b>Materials to avoid and incompatibility</b> | : Strong oxidizing agents; Acids; Halogenated compounds; Alkali metals, Aluminum. |
| <b>Hazardous decomposition products</b>       | : None known, refer to hazardous combustion products in Section 5.                |

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Routes of exposure** : *Inhalation*: YES    *Skin Absorption*: YES    *Skin and Eyes*: Yes    *Ingestion*: YES

- Symptoms of exposure** : See Section 4.
- Acute Toxicity Estimate** : Acute Toxicity Estimate (ATE) is a calculated estimate of the acute toxicological properties of a mixture, based on the LC50 and LD50s of the ingredients and their respective weight fractions of the mixture. It provides information when test data is not available for the mixture itself. See 29 CFR 1910.1200, Appendix A, paragraph A.1.3.6.2 for a description of the ATE.
- ATE Inhalation, 4 hr, rat : > 50 mg/L
- ATE Oral, rat : > 20000 mg/kg
- ATE Dermal, rabbit : > 5000 mg/kg

**Toxicological data** : See below for individual ingredient acute toxicity data.

| Ingredients      | LC50 (4 hr)           | LD50             |                       |
|------------------|-----------------------|------------------|-----------------------|
|                  | Inhalation, rat, mg/L | Oral, rat, mg/kg | Dermal, rabbit, mg/kg |
| 2-Butoxyethanol  | 3.84                  | 917              | 220                   |
| Monoethanolamine | 2.42                  | 1720             | 1025                  |

- Skin corrosion or irritation** : Corrosive to skin.
- Serious eye damage / eye irritation** : Corrosive to eyes.
- Respiratory or skin sensitization** : Not expected to cause skin or respiratory sensitization reactions.
- Germ cell mutagenicity** : None known.
- Carcinogenic status** : ACGIH classifies 2-Butoxyethanol as Category A3 – Animal Carcinogen with unknown relevance in humans. This classification is often used when there is insufficient evidence for carcinogenicity in humans, and the study of carcinogenicity in animals involved relatively high doses or used non-relevant routes of exposure for humans. IARC classifies 2-Butoxyethanol as Group 3 – Not classifiable as a human carcinogen.
- No other components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : None known.
- Specific Target Organ Toxicity, Single Exposure** : May cause respiratory irritation. Avoid prolonged inhalation exposure.
- Overexposure to concentrated 2-Butoxyethanol is known to cause Central Nervous System effects (headache, dizziness, drowsiness, nausea), especially via absorption through the skin. Due to its low concentration in this product, 2-Butoxyethanol is unlikely to cause these symptoms under normal conditions of use.
- Specific Target Organ Toxicity, Repeated Exposure** : Repeated exposure to 2-Butoxyethanol has been shown to effect: Blood, Central Nervous System, Eyes, Hematopoietic System, Kidney, Liver, Respiratory system, Skin.
- Aspiration hazard** : None known.
- Additional information** : N/Av

## SECTION 12 – ECOLOGICAL INFORMATION



- Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Ecotoxicity** : No data available.
- Biodegradability** : No data available.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- PBT and vPvB assessment** : No data available.
- Other adverse effects** : No data available.

## SECTION 13 – DISPOSAL CONSIDERATION

- Handling for disposal** : Handle waste according to recommendations in Section 7.

- Methods of disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : For disposal of unused or waste material, check with local, state and federal environmental agencies.

## SECTION 14 – TRANSPORTATION INFORMATION

| Regulatory Information                   | UN Number  | Shipping Name                                      | Class    | Packing Group | Label   |
|--|--|--|----------|---------------|---|
| <b>DOT</b>                               | <b>UN1760</b>  | CORROSIVE LIQUID, N.O.S. (Ethanolamine, solutions) | <b>8</b> | <b>III</b>    |  |
| <b>49 CFR/DOT Additional Information</b> | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Liters; in packages not exceeding 30 kg gross mass. Refer to 49 CFR 173.154.            |  |          |               |   |
| <b>TDG For packages &gt; 5.0 Liters</b>  | <b>UN1760</b>  | CORROSIVE LIQUID, N.O.S. (Ethanolamine, solutions) | <b>8</b> | <b>III</b>    |  |
| <b>TDG Additional Information</b>        | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Liters; in packages not exceeding 30 kg gross mass. Refer to Canadian TDG Section 1.17. |  |          |               |   |

Not classified as a Marine Pollutant

### IATA

- UN No** : UN1760  
**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Ethanolamine, solutions)  
**Hazard Class** : Class 8  
**Packing Group** : PG III

### IMDG

- UN No** : UN1760  
**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Ethanolamine, solutions)  
**Hazard Class** : Class 8  
**Packing Group** : PG III

## SECTION 15 – REGULATORY INFORMATION

### Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

### US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: This product does not contain an Extremely Hazardous Substance under SARA Section 302.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Skin corrosion/irritation, Category 1  
Serious eye damage/eye irritation, Category 1

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The threshold for this product is 10,000 pounds.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product is not subject to SARA notification requirements, since it does not contain Toxic Chemical constituents above their *de minimus* concentrations.

U.S. State Right to Know Laws

California Proposition 65:

**⚠ WARNING:** This product can expose you to diethanolamine, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Other State Right to Know Laws:

| Ingredient       | CASNO.   | CA  | MA  | MN  | NJ  | NY | PA  | RI  |
|------------------|----------|-----|-----|-----|-----|----|-----|-----|
| 2-Butoxyethanol  | 111-76-2 | YES | YES | YES | YES | No | YES | YES |
| Monoethanolamine | 141-43-5 | YES | YES | No  | YES | No | YES | YES |

## SECTION 16 – OTHER INFORMATION

HMIS Rating : \* - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe  
*Health: 3 Flammability 1 Physical Hazard: 0 PPE: Gloves, safety glasses*

**Legend** :

- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- DSL: Domestic Substances List
- EPA: Environmental Protection Agency
- GHS: Globally Harmonized System
- HPR: Hazardous Products Regulations
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- N/Av: Not Available
- N/Ap: Not Applicable
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

### Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. Armstrong Flooring, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

# Armstrong Flooring™

Lifeproof™ Floor Polish Remover  
09-Mar-2021

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**Revision date:** : 09-Mar-2021

**End of Document**