Material Safety Data Sheet

Lightning Strip

Product and company identification

Product name Lightning Strip Validation date 7/6/2011. Floor finish remover **Material uses** Print date 7/6/2011

In case of emergency **Supplier** Ridley Vacuum & Janitorial Supply

> 3700 Reveille Houston, TX 77087 713-649-4121

1-800-843-6174

Hazardous Material Information System (U.S.A.)

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Health	3 HAZARD RATING
Flammability	2 4 = Extreme 3 = High
Physical hazards	1 2 = Moderate 1 = Slight
Personal protection	C 0 = Insignificant

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

Hazards identification

Emergency overview

FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. HARMFUL IF INHALED. ABSORBED THROUGH SKIN OR SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON

Responsible name

Regulatory Affairs Department

Flammable liquid. Harmful by inhalation, in contact with skin and if swallowed. Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects due to overexposure

Inhalation Maybe toxic by inhalation. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

May be harmful if swallowed. May cause burns to mouth, throat and stomach. Ingestion

Skin Corrosive to the skin. May cause severe burns. Corrosive to eyes. May cause severe burns. Eyes

Potential chronic health effects due to overexposure

Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. **Fertility effects** No known significant effects or critical hazards.

See toxicological information (section 8)

3. Composition/information on ingredients

CAS number 10 - 30 ethylene glycol monobutyl ether 111-76-2 Ethanolamine 141-43-5 5 - 10BENZYL ALCOHOL 100-51-6 5 - 10 Potassium hydroxide 1310-58-3 1 - 5

SARA 313 (Form R - Reporting requirements)

CAS number **Product name** Concentration

111-76-2 ethylene glycol monobutyl ether

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Get medical attention immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing Skin contact

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get

medical attention immediately.

Inhalation Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

attention immediately.

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get Ingestion

medical attention immediately.

First aid measures

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

Notes to physician

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5 Fire-fighting measures

Flammability of the product

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

Suitable

Use dry chemical, CO2, water spray (fog) or foam.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition Decomposition products may include the following materials:

products

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

with a full face-piece operated in positive pressure mode.

Flash point Closed cup: 53°C (127.4°F)

6. Control and preventive measures

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Eliminate all ignition sources. Separate from acids. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Ingredient	Exposure limits				
ethylene glycol monobutyl ether	OSHA PEL (United States, 6/2010). Absorbed through skin. TWA: 50 ppm 8 hour(s). TWA: 240 mg/m³ 8 hour(s). OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 25 ppm 8 hour(s). TWA: 120 mg/m³ 8 hour(s). NIOSH REL (United States, 6/2009). Absorbed through skin. TWA: 5 ppm 10 hour(s). TWA: 24 mg/m³ 10 hour(s). ACGIH TLV (United States, 2/2010). TWA: 20 ppm 8 hour(s).				
Ethanolamine	OSHA PEL (United States, 6/2010). TWA: 3 ppm 8 hour(s). TWA: 6 mg/m³ 8 hour(s). ACGIH TLV (United States, 2/2010). TWA: 3 ppm 8 hour(s). TWA: 7.5 mg/m³ 8 hour(s). STEL: 6 ppm 15 minute(s). OSHA PEL 1989 (United States, 3/1989). TWA: 3 ppm 8 hour(s). TWA: 8 mg/m³ 8 hour(s). STEL: 6 ppm 15 minute(s). STEL: 15 mg/m³ 15 minute(s). NIOSH REL (United States, 6/2009). TWA: 3 ppm 10 hour(s). TWA: 3 mg/m³ 10 hour(s). STEL: 6 ppm 15 minute(s). STEL: 15 mg/m³ 10 hour(s).				
BENZYL ALCOHOL Potassium hydroxide	AIHA WEEL (United States, 5/2010). TWA: 10 ppm 8 hour(s). OSHA PEL 1989 (United States, 3/1989). CEIL: 2 mg/m³ ACGIH TLV (United States, 2/2010). C: 2 mg/m³ NIOSH REL (United States, 6/2009). TWA: 2 mg/m³ 10 hour(s).				

6. Control and preventive measures

Respiratory None required with adequate ventilation.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when

handling chemical products if a risk assessment indicates this is necessary.

Skin Personal protective equipment for the body should be selected based on the task being performed and the

risks involved and should be approved by a specialist before handling this product.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is

necessary to avoid exposure to liquid splashes, mists or dusts.

Methods for cleaning up

Eyes

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal

contractor.

Waste disposal Disposal of this product, solutions and any by-products should at all times comply with the requirements of

environmental protection and waste disposal legislation and any regional local authority requirements.

7. Physical and chemical properties

 Physical state
 Liquid
 Boiling/condensation point
 100°C (212°F)

 Color
 Blue
 Melting/freezing point
 0°C (32°F)

OdorMild SolventVapor pressure<0.13 kPa (<1 mm Hg)</th>

 VOC
 47.0%
 Vapor density
 >1 [Air = 1]

 pH
 12.8 to 13.8
 Weight per Gallon:
 8.52 lbs./gal.

 1% pH:
 9.6
 Specific Gravity:
 1.02 gm/ml

8. Toxicological information

Acute toxicity

Product/ingredient name ethylene glycol monobutyl ether Result Species Dose **Exposure** LD50 Dermal Rabbit 220 mg/kg LD50 Intraperitoneal 220 mg/kg Rat LD50 Intravenous Rat 307 mg/kg LD50 Oral 917 mg/kg Rat LD50 Oral 250 mg/kg Rat LD50 Unreported Rat 917 mg/kg LDLo Oral 1500 mg/kg Rat TDLo Oral 500 mg/kg Rat TDLo Unreported 250 mg/kg Rat 7 hours LC50 Inhalation Vapor Rat 2900 mg/m3 LC50 Inhalation Gas. 450 ppm 4 hours Rat Ethanolamine LD50 Dermal Rabbit 1 mL/kg LD50 Intramuscular Rat 1750 mg/kg LD50 Intraperitoneal Rat 67 mg/kg LD50 Intravenous 225 mg/kg Rat LD50 Oral 1720 mg/kg Rat 1500 mg/kg LD50 Subcutaneous Rat BENZYL ALCOHOL LD50 Dermal Rabbit 2000 mg/kg LD50 Intra-arterial 441 mg/kg Rat LD50 Intraperitoneal Rat 400 mg/kg LD50 Intravenous 53 mg/kg Rat LD50 Oral Rat 1.5 mL/kg LD50 Oral 1660 mg/kg Rat 1230 mg/kg LD50 Oral Rat LDLo Intraperitoneal Rat 650 mg/kg LDLo Subcutaneous 1700 mg/kg Rat

TDLo Intraperitoneal

LD50 Oral

Potassium hydroxide

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

9. Transport information								
Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information		
DOT Classification	UN1719	Caustic alkali liquid, N.O.S. (Monoethanolamine)	8	III	CORROSIVE	-		

Rat

Rat

514 mg/kg

273 mg/kg

PG* : Packing group