



# LIFE FLOOR<sup>®</sup>

Maintenance  
Manual



2700 Blue Water Road, Suite 400  
Eagan, MN 55121  
[www.safetysurfaces.com](http://www.safetysurfaces.com)

# Congratulations on your new Life Floor!

In this manual you will find more information regarding the benefits of Life Floor, including cleaning processes and tile maintenance. If you are unsure of any detail we have described in this manual, or if you have any further questions, please contact our flooring experts at [info@safetysurfaces.com](mailto:info@safetysurfaces.com).

## Table of Contents

Protecting Life Floor	1
Cleaning Life Floor	2
FAQ's	2
Recommendations	3
Degreaser Cleaner	4-5
Peroxide Cleaner	6-7
Mineral Deposit Remover	8-9

# Protecting Life Floor

Life Floor manufacturing by MNY Group, LLC offers numerous advantages and safety benefits not available in any other pool flooring materials or systems. The purpose of this document is to provide information about Life Floor maintenance and limitations. Failure to follow these guidelines may result in damaged Life Floor tiles and a voiding of the Life Floor warranty.

## Routine Maintenance

Areas exposed to only barefoot traffic can be cleaned on an as-needed basis with Life Floor Easy Maintenance Cleaners. For areas exposed to shoe traffic, Life Floor should be cleaned at least once a week. A standard cleaning schedule can be found in the Cleaning Guide. When cleaning Life Floor, use a cotton mop, cloth, sponge, a light or medium scrubbing machine with vacuum recovery, or non-metallic brushes. Stiff brushes or brushes that contain abrasives may damage Life Floor. Do not use metal brushes or grit-coated, aggressive brushes of any kind on the tile surface.

## Cleaning Solutions

While most floor cleaners are acceptable to clean the surface of Life Floor tile, we recommend Life Floor Easy Maintenance Cleaners. Effective alternatives include bacteria killing agents such as hydrogen peroxide, bleach, ammonia or citrus. Do not use any type of sealer or wax product, as these will coat the tile surface with a slippery residue.

## Preventative Maintenance

Life Floor tiles are durable and designed to withstand high volumes of barefoot traffic. However, Life Floor tiles may be scratched or cut by sharp, heavy, or abrasive objects. Should a tile become damaged, replacement is generally easy, but force will be required to remove an adhered tile. We recommend the use of plastic or natural bristle scrub brushes to clean the tile surfaces. We also recommend the use of plastic or wood furniture instead of heavy, metal furniture. Deck furniture should have wide and flat feet, or broad furniture coasters secured to the bottom of deck furniture feet. If mechanical lifts or heavy objects are to be transported or placed on top of Life Floor, it may be necessary to protect the deck surface with plywood or Masonite. Do not allow burning or extremely hot objects to come in contact with Life Floor tile. To help remind your guests about acceptable footwear and use of Life Floor, we have created signs that you may purchase upon request.

## Non-Warrantable Conditions

3/8" Life Floor tiles in normal traffic conditions are warranted for five years (For further details, see terms and conditions of sale). The following is a non-exhaustive list of conditions for which Life Floor tiles are not warranted: high heel damage, contact with sharp objects such as knives, scissors, metal edges, contact with hot objects such as, sparks, cigarettes, hot liquids, contact with heavy machinery, and/or prolonged contact with hazardous chemicals e.g., solvents or acids.

# Cleaning Life Floor

## Frequently Asked Questions

### **How often do I need to clean Life floor?**

If an area is exposed to shoe traffic, Life Floor should be cleaned on a weekly basis. If an area has only barefoot traffic (splash pads, spray parks) we recommend cleaning Life Floor on an as-needed basis. Areas with constant water flow will require less cleaning. We generally recommend using Mineral Deposit Remover once per season. In some cases, excessive use of aerosol sunscreen may need to be removed with Degreaser Cleaner on a weekly basis.

### **How often do I use each Life Floor Easy Maintenance Cleaner?**

This also depends on the application. Each cleaner provides a different cleaning solution.

We generally recommend using Degreaser Cleaner on a weekly basis to remove dirt and oil, but should be used on an as-needed basis for barefoot only areas. Peroxide Cleaner and Mineral Deposit Remover may be used on an as-needed basis.

### **What is the white film on the tiles and how do I clean it?**

Mineral deposits can appear as a white film or even a crusty yellow coating. If mineral deposits are identified and addressed early, they are easily removed with the Mineral Deposit Remover. When using the MDR, prepare a solution of equal parts cleaner and water in a squeeze bottle. Do not use any type of mister, pump sprayer, or any other tool that will aerosolize the cleaning solution. Spray the cleaning solution on the affected area and begin agitating immediately with a deck brush to help separate the deposits from the tiles. Do not allow the cleaner to dry on the floor. Rinse the area thoroughly and begin recovery. A wet vacuum is the most effective recovery method, as vacuuming will also pull dirt and water from between the tiles. If you do not have access to a wet vacuum, use a hose to rinse the area and a foam blade squeegee to push dirty water into a nearby drain. We recommend you follow up any MDR treatment with our Degreaser Cleaner to remove any lingering films or residue. **For stubborn mineral deposits**, you may increase the concentration of MDR to 100%.

### **An area of my floor seems dirty, how do I decide which cleaner to use?**

If you see an area you think may be a mineral build up, put a few drops of MDR on the area. If it begins to fizz and foam, prepare to clean the area using the MDR; if it does not react at all, then test out the Degreaser and Peroxide Cleaners in the same way to see which cleaning solution is best suited for cleaning the area.

### **Can Life Floor be permanently stained?**

To date, we have not found a chemical that permanently stains Life Floor. However, Life Floor may become discolored if extremely harsh chemicals such as muriatic are allowed to sit on the tile for an extended period of time.

### **Are there any chemicals I should avoid using on Life Floor?**

Avoid chemicals such as paint, trichloroethylene, and muriatic acid. While Life Floor is chemical resistant, solvents may attack the adhesive beneath the tiles. When using solvents to remove stains, avoid flooding butt joints with the chemicals listed above. If solvents do soak into the butt joints, clean the area with our Degreaser Cleaner and use vacuum recovery. Solvents to avoid for contact cement: all solvents, including mineral spirits and gasoline.

### **How do I remove gum from Life Floor?**

First apply ice to harden the gum. Once the gum is hard, carefully lift it away with a putty knife or similar scraper. Use caution, as Life Floor can be damaged by aggressive scraping. Any remaining gum residue can be removed by applying WD-40 with a rag.

# What is the best cleaning strategy for my Life Floor application?

Cleaning processes and schedules are dependent on many factors including but not limited to: the type of application, amount of daily foot and shoe traffic, local water quality, pool chemistry, and exposure to food and sunscreen. You may adjust the cleaning schedule below based on the characteristics of your facility.

## Recommended Cleaners

We offer a full line of cleaning supplies that are designed specifically for Life Floor tiles. Our Life Floor suite of cleaners includes our Peroxide Cleaner, Degreaser Cleaner, and Mineral Deposit Remover.



### Peroxide Cleaner

A multi-purpose cleaner that removes dirt, grime, and all types of organic matter.



### Degreaser Cleaner

Our Degreaser Cleaner removes oil and grease stains from food, feet and sunscreen.



### Mineral Deposit Remover

This cleaner effectively removes calcium, rust stains, lime, magnesium, and aluminum oxide.

Each application will require the use of different cleaners. Bathrooms, showers, and locker rooms need to be cleaned more frequently with Peroxide Cleaner. Mineral Deposit Remover should be used on any application where deposits are visible. Areas exposed to heavy foot and shoe traffic, food, and sunscreen should be cleaned regularly with Degreaser Cleaner.

## The Life Floor cleaning process has three easy steps:

### Apply-Agitate-Recover

#### Applying the Cleaners

Apply the cleaner with a mop, pump-up sprayer, or spray-foamer (Mineral Deposit Remover should not be sprayed). If you are using an auto scrubber, make the first pass with the vacuum turned off. After applying the cleaner, let the cleaner sit for 2-10 minutes on the surface. Do not allow the cleaner to dry; mist with water if cleaner does start to dry.

#### Agitating the Cleaners

After the cleaner has had time to break down and loosen any dirt and oils, scrub the floor. A variety of brushes work well. We recommend manual brushes or powered brushes in a floor machine. Use caution when using powered brushes of any type. Life Floor may be damaged if brushes are too stiff or if the floor is dry.

#### Recovering the Cleaners

Begin recovery immediately after agitating the cleaners. A wet vacuum is the most effective recovery method, as vacuuming will also pull dirt and water from between the tiles. If you do not have access to a wet vacuum, use a hose to rinse the area and a foam blade squeegee to push dirty water into a nearby drain. We do not recommend the use of a mop to recover a floor as this is the least effective method of recovery.

## Recommended Cleaning Schedule

Your cleaning schedule will vary based on the specific needs of your facility.

**Week 1:** Degreaser Cleaner

**Week 2:** Degreaser Cleaner

**Week 3:** Peroxide Cleaner\*

**Repeat**

\*We also recommend using Peroxide Cleaner in bathrooms, showers, and locker rooms once per week.

\*Use Mineral Deposit Remover wherever deposits can be seen on the tile followed by Degreaser Cleaner.



**NFPA RATING:** Health = 2 Flammability = 0 Reactivity = 0

**HMIS RATING:** Health = 2 Flammability = 0 Physical Hazard = 0

## SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (533N99A)

**Manufacturer's Name:** Life Floor®

**Address:** 2010 E Hennepin Ave #8, Minneapolis, MN 55413

**Product Name:** Degreaser Cleaner

**Other information call:** (612)-567-2833

**Date Prepared:** August 14, 2012 (new)

**Email:** solutions@lifefloor.com

**Prepared by:** Regulatory Affairs Department

**Emergency Telephone No.:** (800)-424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

## SECTION II -- INGREDIENTS / IDENTITY INFORMATION

### Components -- Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Sodium metasilicate (1)	6834-92-0	N/E	N/E	2 mg/M3	1-2%
Water.....	7732-18-5	none	none	N/A	---
Tetrasodium salt of Ethylenediamine.....	64-02-8	N/E	N/E	N/A	---
Tetraacidic acid Complex Blend of Surfactants.....	Unknown to Hillyard	N/E	N/E	N/A	---
Lauramine oxide.....	1643-20-5	N/E	N/E	N/A	---
Cationic Surfactant.....	68444-16-6	N/E	N/E	N/A	---

(1) Exposure may be elevated for Sodium hydroxide per OSHA: PEL = 2 mg/M3 or TLV = 2 mg/M3.

VOC (concentrate) = 0.50%; Diluted 1:40 VOC=0.01%

N/A= Not Applicable N/E= Not Established

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 202°F

Specific Gravity (H2O = 1): 25°C =1.04

Vapor Pressure (mm Hg.): 17.5

Percent Volatile by Weight (%): 89 - 91%

Vapor Density (AIR = 1): 0.6

Evaporation Rate (ethyl ether = 1): less than 1

Solubility in Water: complete

Appearance and Odor: clear, purple liquid, non-objectionable odor

pH (concentrate) = 13 – 14

Density = 8.66 lbs/gl

## SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: none to boiling (T.C.C.)

Flammable Limits: LEL = N/A

Extinguishing Media: Water, carbon dioxide, dry chemical or foam

UEL =N/A

Unusual Fire and Explosion Hazards: N/A

Special Fire Fighting Procedures: N/A

## SECTION V -- PHYSICAL HAZARDS

Conditions to Avoid: Do not mix with anionic cleaners.

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

Hazardous Decomposition Products or Byproducts: Carbon dioxide, carbon monoxide, ammonia, nitrous oxide (trace)

Incompatibility (Materials to Avoid): Oxidizing materials

## SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Concentrate not a primary skin irritant when tested per the Federal Hazardous Substance Act Procedure.

Concentrate was a primary eye irritant when tested per the Federal Hazardous Substance Act Procedure. Prolonged overexposure to the eyes may produce be corrosive to eyes. Not toxic at 5 g./kg. on oral toxicity test.

2. None known to Hillyard Industries.

Chemical listed as Carcinogen or Potential Carcinogen:

# Degreaser Cleaner Safety Data Sheet



## SECTION VI -- HEALTH HAZARD DATA continued

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

**Signs and Symptoms of Exposure:** Prolonged exposure to concentrated product may produce severe eye irritation. Ingestion may produce burns of the mouth, throat, esophagus and stomach.

**Medical Conditions Generally Aggravated by Exposure:** Skin problems such as industrial dermatitis.

**Emergency and First Aid Procedures:** Ingested: If swallowed, give a large amount of water and call a physician.

Eyes and Skin: For eye and skin contact, flush immediately with plenty of water for at least 15-20 minutes; Eyes: lift eyelids and flush with water and get medical assistance immediately. Skin: If skin irritation persists, get medical attention.

Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

## SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Rinse spill area thoroughly with water. Use appropriate protective equipment.

**Waste Disposal Method:** Disposal is regulated by the Resource Conservation Recovery Act; concentrate is corrosive per EPA Hazardous Waste Classification. Disposal of regulated quantities should be neutralized at a permitted facility in accordance with all federal, state and local requirements.

**Precautions To Be Taken In Handling And Storing:** USE WITH ADEQUATE VENTILATION. Avoid breathing of fine fog spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA STANDARD 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Close container after each use. Container disposal: Triple rinse (or equivalent) then or clean, dry container for recycling or reconditioning. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state and local requirements.

**Other Precautions:** Do not use with fog mist or fine droplet sprayer with concentrate unless one uses respiratory protection. When used according to label direction respiratory protection is not needed. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

## SECTION VIII -- CONTROL MEASURES:

Respiratory Protection (Specify Type): Ventilate to keep air concentration below TLV on Sodium metasilicate.

Ventilation:

Local Exhaust = Recommended Mechanical (General) = Recommended Special = N/A Other = N/A Protective Gloves:

Not required Eye Protection: Chemical safety goggles when working with concentrate Other Protective Clothing or

Equipment: Impervious to water and alkaline liquid where concentrate is a concern. Work / Hygienic Practices: Wash thoroughly after handling.

## SECTION IX - TRANSPORTATION INFORMATION:

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning compound

UN No.: not applicable Limited Qty.: not applicable Hazard Class: not applicable Labels required: not required DOT

Exception: not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

## DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.



# Peroxide Cleaner Safety Data Sheet

#0001



**NFPA RATING:** Health = 2 Flammability = 1 Reactivity = 0

**HMIS RATING:** Health = 2 Flammability = 1 Physical Hazard = 1

## SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (548N-84A)

**Manufacturer's Name:** Life Floor®

**Address:** 2010 E Hennepin Ave #8, Minneapolis, MN 55413

**Product Name:** Degreaser Cleaner

**Other information call:** (612)-567-2833

**Date Prepared:** August 14, 2012 (new)

**Email:** solutions@lifefloor.com

**Prepared by:** Regulatory Affairs Department

**Emergency Telephone No.:** (800)-424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

## SECTION II -- INGREDIENTS / IDENTITY INFORMATION

### Components -- Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Hydrogen Peroxide	7722-84-1	1.4mg./m3	1.4mg./m3	N/A	5-8%
Water	7732-18-5	none	none	N/A	---
Complex Surfactant Blend	68991-48-0 & 68439-46-3	N/E	N/E	N/A	---
Fragrance	Unknown	none	none	N/A	---

VOC (Concentrate) = 0.0%; VOC (min. dilution 1:10) = 0.0%

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 217°F

Specific Gravity (H<sub>2</sub>O = 1): 25°C =1.02

Vapor Pressure (mm Hg.): 17.6

Percent Volatile by Weight (%): 93 - 94%

Vapor Density (AIR = 1): 0.65

Evaporation Rate (ethyl ether = 1): slower than 1

Solubility in Water: complete

Appearance and Odor: Clear, colorless liquid; Citrus odor

pH (concentrate) = 3.5-4.5

Density = 8.49 lbs/gal

pH (diluted 1:40): 7.5-8.5

## SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits:** LEL = Not determined UEL = Not determined

**Flash point:** >200°F corrected (T.C.C.)

**Extinguishing Media:** Do NOT use CO<sub>2</sub> extinguisher on this material: use only water spray or appropriate foam. Do NOT use organic compounds on this market.

**Special Fire Fighting Procedures:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

**Unusual Fire and Explosion Hazards:** Release of oxygen may support combustion. Contact with incompatible materials (e.g. metals, alkalis, and strong reducing agents) may cause hazardous decomposition resulting in the release of heat, steam, and oxygen. Exposure to heat may cause hazardous decomposition. Hydrogen peroxide may spontaneously decompose above 150C. Do not mix with kerosene or gasoline.

## SECTION V -- PHYSICAL HAZARDS

**Conditions to Avoid:** Heat and flame

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** N/A

**Hazardous Decomposition Products or Byproducts:** Oxygen, oxides of carbon and steam

**Incompatibility (Materials to Avoid):** Metals, Reducing agents, Alkalis, Combustible materials, Organic materials, Salt of heavy metals, Impurities.

## SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? LD50 greater than 5g/kg

### HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Contact with concentrate may cause eye burns and prolonged skin contact with concentrate may cause skin irritation. Ingestion can cause nausea, vomiting and gastrointestinal irritation. Prolonged inhalation may cause respiratory irritation. Acute oral toxicity of concentrate per EPA method = >5000mg./kg. Acute dermal irritation = Non-irritating. Toxicity = LC50>2.13 mg./Liter.

2. None known to manufacturer when used according to label directions.

# Peroxide Cleaner Safety Data Sheet



## SECTION VI -- HEALTH HAZARD DATA continued

### Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

**Signs and Symptoms of Exposure:** Eye symptoms may occur with delay such as conjunctiva and burns; reaction may be delayed. Prolonged skin contact with concentrate may cause irritation. Inhalation of fine mist or aerosols can lead to irritation and inflammation of the respiratory tract and cause pulmonary edema. Symptoms may occur with delay. Swallowing can lead to irritation of the mucous membranes in the mouth, esophagus and stomach.

**Medical Conditions Generally Aggravated by Exposure:** Open cuts and sores may be irritated by contact.

**Emergency and First Aid Procedures:** Eye and Skin Contact - Flush eyes and skin with plenty of water for 15 minutes; apply water gently and do not rub area. For eyes seek medical attention immediately. For skin, if irritation persists, get medical attention. If swallowed, do not induce vomiting. Seek immediate medical attention. If excess inhaled, remove to fresh air; if breathing is difficult, seek medical attention.

## SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Small spills should be flushed with water and picked up with a mop. Hydrogen peroxide quickly decomposes to oxygen and water.

**Waste Disposal Method:** Dispose of in accordance with state or local regulations.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use. Since empty packages retain product residue, follow label warnings even after package is empty.

**Other Precautions:** Do not dispose of in storm drains or streams. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

## SECTION VIII -- CONTROL MEASURES:

Respiratory Protection (Specify Type): Not normally required with adequate ventilation.

Local Exhaust = Normally adequate Mechanical (General) = Recommended Special = N/A Other = N/A

Protective Gloves: Impervious gloves (neoprene or rubber) with concentrate

Eye Protection: Splash goggles with concentrate

Other Protective Clothing or Equipment: Avoid prolonged contact. Wear clothing to prevent contact with concentrate if necessary. Eye wash, safety shower to be available when working with concentrate.

Work / Hygienic Practices: Avoid contact with eyes, skins, and clothing. Wash thoroughly after handling; wash clothing before reuse. Completely submerge contaminated clothing or other materials in water prior to drying.

## SECTION IX - TRANSPORTATION INFORMATION:

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning compound

UN No.: not applicable Limited Qty.: not applicable Hazard Class: not applicable Labels required: not required

DOT Exception: not applicable EPA Hazardous waste number / code: not listed

Hazardous waste characteristics: Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

## DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.



**NFPA RATING:** Health = 2 Flammability = 0 Reactivity = 0

**HMIS RATING:** Health = 2 Flammability = 0 Physical Hazard = 0

## SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (548N-84A)

**Manufacturer's Name:** Life Floor® **Address:** 2010 E Hennepin Ave #8, Minneapolis, MN 55413  
**Product Name:** Degreaser Cleaner **Other information call:** (612)-567-2833  
**Date Prepared:** August 14, 2012 (new) **Email:** solutions@lifefloor.com  
**Prepared by:** Regulatory Affairs Department  
**Emergency Telephone No.:** (800)-424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

## SECTION II -- INGREDIENTS / IDENTITY INFORMATION

### Components -- Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Phosphoric Acid*(1)	7664-38-2	1 mg./m3	1 mg./m3	3 mg./m3	30-35%
Water	7732-18-5	none	none	N/A	---
Linear Primary Alcohol Ethoxylate	68439-46-3	N/E	N/E	N/A	---

\*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372: Phosphoric acid (1) Regulated by OSHA, CT, DE, FL, ID, IL, LA, MA, MN, NJ, NY, PA, RI, WA, WI. VOC (less water) =2g/l.

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

**Boiling Point:** 214°F **Specific Gravity (H2O = 1):** 25°C =1.07  
**Vapor Pressure (mm Hg.):** 17.0 **Evaporation Rate (ethyl ether = 1):** slower than 1  
**Vapor Density (AIR = 1):** 1.0 **Appearance and Odor:** Clear, colorless liquid; non-objectionable odor  
**Solubility in Water:** complete

## SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits:** LEL = Not determined UEL = Not determined **Flash point:** None to boiling (T.C.C.)  
**Extinguishing Media:** Foam, dry chemical, carbon dioxide, water spray.  
**Special Fire Fighting Procedures:** Hot phosphoric acid is corrosive. Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.  
**Unusual Fire and Explosion Hazards:** May generate hydrogen gas in contact with some mistakes.

## SECTION V -- PHYSICAL HAZARDS

**Conditions to Avoid:** None known to manufacturer **Stability:** Stable  
**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** N/A  
**Hazardous Decomposition Products or Byproducts:** Hydrogen gas from contact with some metals  
**Incompatibility (Materials to Avoid):** Corrodes some metals and alloys; cyanides and strong alkalies (ammonia) or bleach

## SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? By mist Skin? Yes Ingestion? Yes

### HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (FHSA), product concentrate is severe irritant on prolonged exposure; Eye Irritation Test (FHSA) = eye irritant. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours. Prolonged skin contact may cause skin burns. Spray mist irritate nose and throat. Harmful or fatal is swallowed.

2. Chronic local effects may consist of multiple areas of superficial destruction of skin or dermatitis

### Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.



## SECTION VI -- HEALTH HAZARD DATA continued

**Signs and Symptoms of Exposure:** Contact: eye irritation and/or burns of skin, and on mouth and lips after ingestion, with sour taste of acid, severe gastrointestinal irritation, nausea, vomiting, bloody diarrhea. Inhalation of high concentrations of vapors results in respiratory and eye irritation, narcosis, headache, nausea, dizziness.

**Medical Conditions Generally Aggravated by Exposure:** None known to manufacturer

**Emergency and First Aid Procedures:** If swallowed, immediately give large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Do not induce vomiting. Call a physician immediately. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. For eyes, GET PROMPT MEDICAL ATTENTION. Remove and wash all contaminated clothing before reuse. If excess inhaled, remove fresh air.

## SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Rinse spill area thoroughly with water. Avoid contamination of storm drains, sewers, or other unauthorized treatment drainage systems and natural waterways.

**Waste Disposal Method:** Disposal is regulated under the Resources Conservation and Recovery Act (40 CFR 261.22) as a corrosive waste. Regulated quantities should be neutralized by a permitted facility in accordance with applicable local, state, and federal requirements.

**Precautions To Be Taken In Handling And Storing:** Product residue may remain on or in empty containers. All precautions for handling the product must be used in handling the empty container or residue. Container disposal: triple rinse (or equivalent) then offer clean, dry containers for recycling or reconditioning. Waste from normal use may be sewerered to a public-owned treatment works in compliance with applicable federal, state and local requirements.

**Other Precautions:** Avoid breathing fine fog spray mist. Use with adequate ventilation. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA STANDARD 29 CFR 1910.94 for technical guidelines on keeping air contamination below applicable exposure limits. Avoid contact with skin, eyes and clothing. Do not take internally.

## SECTION VIII -- CONTROL MEASURES:

**Respiratory Protection (Specify Type):** Not usually necessary. If spraying in a fine fog mist use NIOSH approved respirator (TC-21C-279, TC-23C-736, or T 23C-745). **Other Protective Clothing or Equipment:** Not usually necessary

**Ventilation:** At least 3 air exchanges per hour suggested in good public restrooms.

**Local Exhaust = Recommended Mechanical (General) = Recommended Special = N/A Other = N/A**

**Protective Gloves:** Impervious gloves (rubber)

**Eye Protection:** Chemical safety goggles.

**Work / Hygienic Practices:** Wash thoroughly after handling. Upon contact remove contaminated clothing; wash before reuse.

## SECTION IX - TRANSPORTATION INFORMATION:

**Applicable regulations:** 49 CFR = no; IMCO = no; IATA = no

**Proper shipping name:** Cleaning compound

**UN No.:** not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable **Labels required:** not required

**DOT Exception:** not applicable **EPA Hazardous waste number / code:** not listed

**Hazardous waste characteristics:** Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

## DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.