SAFETY DATA SHEET – LIBERTY LEVEL

Section 1. Identification

Product Name: Liberty Level **Effective Date: 19-Jun-24**
Product Use: Patch, Mortar

Manufacturer Name: **PROFLEX® Products, Inc.**
1603 Grove Ave
Haines City, FL 33844 **Emergency Phone:** 877-577-6353 **Product Information:** 877-577-6353

Section 2. Hazard(s) Identification

GHS Pictograms Signal Words

Signal Word: Danger

Classification of the Substance or Mixture

Skin Corr. 1A	Causes severe skin burns and eye damage
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 1A	May cause cancer if inhaled.
STOT SE 3	May cause respiratory irritation
STOT RE 1	Causes damage to organs through prolonged or repeated exposure if inhaled.

Hazard statements:

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H335	May cause respiratory irritation.
H350	May cause cancer if inhaled.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a doctor.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label)
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+ P363	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local, regional, national, and international regulations..

Other Hazards Exposure may aggravate pre-existing eye, skin, or respiratory conditions

Ingredient(s) with unknown acute toxicity (GHS-US/CA): No data available

Section 3. Composition / Information on Ingredients

Substances or Mixture: Not available

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification: None

List of components

Concentration	Name	Ident. No:	Classification	Registration No:
55-75 %*	Silica Sand	CAS:14808-60-7	STOT RE 1, H372; Carc. 1A, H350	
15-45 %*	Cement, Portland, chemicals	CAS:65997-15-1	STOT SE 3,H335; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Corr. 1A, H314	
15-45 %*	Calcium aluminate cement	CAS: 65997-16-2	Eye Irrit. 2A, H319	
1-10 %*	Limestone	CAS: 1317-65-3	Not Classified	
1-10 %*	Calcium sulfate dihydrate	CAS: 13397-24-5	Not Classified	
1-9 %*	Calcium oxide	CAS: 1305-78-8	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402	

*Means that the component will fall into one of the ranges specified due to batch-to-batch variability and to protect Confidential Business Information.

Section 4. First Aid Measures

Description of first aid measures

In case of skin contact: Wash with plenty of water and soap.
In case of eyes contact: Wash immediately with water.
In case of Ingestion: Do not induce vomiting, get medical attention showing the SDS and the hazard label.
In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed: Not available
Indication of any immediate medical attention and special treatment needed
Treatment: Not available

Section 5. Fire Fighting Measures

Extinguishing media
Suitable extinguishing media: Water. Carbon dioxide (CO_2)
Unsuitable extinguishing media: None in particular.
Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products: Not available
Explosive properties: Not available
Oxidizing properties: Not available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.
Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.
Limit leakages with earth or sand.

Methods and material for containment and cleaning/collecting

For dry material, collect by sweeping and scooping. Transfer collected material to a container, being careful to minimize the creation of dust.
For wet material, scoop material up and transfer to an open container. Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.
Allow material to dry before disposal.

Section 7. Handling and Storage

Precautions for safe handling: Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe dust. Do not take internally.

General Hygiene Advice: Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children. Store locked up. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Keep dry until use

Section 8. Exposure Controls / Personal Protection

Control Parameters

For any substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or provincial governments.

Silica Sand (CAS: 14808-60-7)		
USA ACGIH	ACGIH TWA	0.025 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA)	50 µg/m³
USA NIOSH	NIOSH REL (TWA)	0.05 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Cement, Portland, chemicals (CAS: 65997-15-1)		
USA ACGIH	ACGIH TWA	1 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust), 5 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	5000 mg/m³
Limestone (CAS: 1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust), 5 mg/m³ (respirable dust)
Calcium oxide (CAS: 1305-78-8)		
USA ACGIH	ACGIH TWA	2 mg/m³
USA OSHA	OSHA PEL (TWA)	5 mg/m³
USA NIOSH	NIOSH REL (TWA)	2 mg/m³
USA IDLH	US IDLH (mg/m³)	25 mg/m³
Calcium aluminate cement (CAS: 65997-16-2)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust), 4 mg/m³ (respirable dust)
Calcium sulfate dihydrate (CAS: 13397-24-5)		
USA ACGIH	ACGIH TWA	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
USA OSHA	OSHA PEL (TWA)	15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA)	10 mg/m³ (total dust), 5 mg/m³ (respirable fraction)

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.

Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.
Hand Protection: Wear protective gloves.
Eye and Face Protection: Chemical safety goggles and face shield.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
Other Information: When using, do not eat, drink or smoke.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.):	Solid Powder (gray or white)
Odor:	Cement like
Odor Threshold:	Not Available
pH:	10.0 – 13 when wet
Melting point/Freezing point:	Not Available
Initial boiling point and boiling range:	Not Available
Flash point:	Not Available
Evaporation rate (Water=1):	Not Available
Flammability:	Not Flammable/Not Combustible
Upper Flammability/Explosive Limit:	Not Available
Lower Flammability/Explosive Limit:	Not Available
Vapor Pressure	Not Available
Vapor Density:	Not Available
Relative Density:	2.0 – 3.15 g/mL
Solubility in Water:	Insoluble
Partition coefficient: n-octanol/water:	Not Available
Auto-ignition temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity (cps):	Not Available
VOC Content:	0 g/L

Section 10. Stability and Reactivity

Reactivity:	Stable under normal conditions
Chemical stability:	Stable under normal storage conditions. Keep dry in storage.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use
Conditions to avoid:	Stable under normal conditions. Heat and Incompatible materials.
Incompatible materials:	Strong acids. Strong Oxidizers.
Hazardous decomposition products:	Will not spontaneously occur. Addition of water will produce caustic calcium hydroxide, which can cause chemical burns.

Section 11. Ecological Information

Information on toxicological effects
Toxicological information of the mixture:

a)	**acute toxicity**	Not classified. Based on available data, the classification criteria are not met
b)	**skin corrosion/irritation**	The product is classified: Skin irritation, Category 2(H315)
c)	**serious eye damage/irritation**	The product is classified: Serious eye damage, Category 1, 2A(H318, H319)
d)	**respiratory or skin sensitization**	The product is classified: Skin Sensitization, Category 1(H317)
e)	**germ cell mutagenicity**	Not classified. Based on available data, the classification criteria are not met
f)	**carcinogenicity**	The product is classified: Carcinogenicity, Category 1A(H350)
g)	**reproductive toxicity**	Not classified Based on available data, the classification criteria are not met
h)	**STOT-single exposure**	Not classified Based on available data, the classification criteria are not met
i)	**STOT-repeated exposure**	The product is classified: Specific target organ toxicity following repeated exposure, Category 1(H372)
j)	**aspiration hazard**	Not classified Based on available data, the classification criteria are not met

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

LD50 and LC50 Data:

Silica Sand (CAS: 14808-60-7)	
LD50 Oral Rat	>5000 mg/kg
LD50 Dermal Rat	>5000 mg/kg
Calcium oxide (CAS: 1305-78-8)	
LD50 Oral Rat	>2000 mg/kg
LD50 Dermal Rabbit	>2500 mg/kg

Section 12. Ecological Information

Toxicity

Ecology - General: **Not classified.**

Calcium oxide (CAS: 1305-78-8)	
LC50 Fish 1	50.6 mg/l
Calcium aluminate cement (CAS: 65997-16-2)	
LC50 Fish 1	>100 mg/l (96h - Species: Oncorhynchus mykiss)
Lithium Carbonate (CAS: 554-13-2)	
LC50 Fish 1	8.1 mg/l, 96 hours (Mummichog fundulus heteroclitus)

Persistence and Degradability: Not available
Bioaccumulative Potential: Not available

Calcium oxide (CAS: 1305-78-8)	
BCF Fish 1	(no bioaccumulation)

Mobility in Soil: Not available
Other Adverse Effects: Not available

Section 13. Disposal Considerations

Waste treatment methods
Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.
Ecology - Waste Materials: Avoid release to the environment.

Section 14. Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

Land transport	**DOT**	Not regulated for transport
Sea transport	**IMDG**	Not regulated for transport
Air transport	**IATA / CAO**	Not regulated for transport

Section 15. Regulatory Information

US Federal Regulations

SARA Section 311/312 Hazard Classes
Health hazard - Specific target organ toxicity (single or repeated exposure)
Health hazard - Carcinogenicity
Health hazard - Respiratory or skin sensitization
Health hazard - Serious eye damage or eye irritation
Health hazard - Skin corrosion or Irritation

Silica Sand (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium oxide (CAS: 1305-78-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, Portland, chemicals (CAS: 65997-15-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (CAS: 1317-65-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium sulfate dihydrate (CAS: 13397-24-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations
California Proposition 65

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Silica Sand (14808-60-7)	X		X	

Calcium Oxide (CAS: 1305-78-8)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Calcium sulfate dihydrate (CAS: 13397-24-5)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Cement, Portland, chemicals (CAS: 65997-15-1)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Limestone (CAS: 1317-65-3)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Silica Sand (CAS: 14808-60-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

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Section 16. Other Information

Safety Data Sheet

Additional classification information

NFPA Health:	2 = Moderate
NFPA Flammability:	0 = Not Combustible
NFPA Reactivity:	0 = Minimal
NFPA Special Risk:	NONE

NFPA

Code	Description
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Abbreviations:

≤ Less Than or Equal To
≥ Greater Than or Equal To

ACGIH American Conference of Governmental Industrial Hygienists

NA Not available
NFPA National Fire Protection Agency
IOSH National Institute of Safety & Health
NTP National Toxicology Program

BCF Bioconcentration factor

°C Celsius temperature scale
CAS: Chemical Abstract Service Number
CAO. Cargo Aircraft Only
CFR Code of Federal Regulations
CNS Central Nervous System

DOT Department of Transportation

EC50 Effective Dose

°F Fahrenheit temperature scale Prop. Proprietary

IARC International Agency for Research on Cancer
IATA International Air Transport Association
IDLH Immediately Dangerous To Life or Health
IMDG International Maritime Dangerous Goods code

LC50 Lethal Inhalation Concentration
LD50 Lethal Dose
LEL Lower explosive limit

OSHA Occupational Safety & Health

PE Personal Protective Equipment
PEL Permissible Exposure Limit

RCRA Resource Conservation Recovery Act

SARA Superfund Amendments and Reauthorization Act
STEL Short-term Exposure Limit
STOT RE Specific Target Organ Toxicant (repeated exposure)
STOT SE Specific Target Organ Toxicant (single exposure)

TLV Threshold Limit Value
TSCA Toxic Substance Control Act
TWA Time Weighted Average

UEP Upper explosive limit
USA United States

VOC Volatile organic content

WHMIS Workplace Hazardous Materials Information System