SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME
Protein Matrix LLC
299 Broadway
Suite 203
New York, New York 10007

EMERGENCY TELEPHONE
Chemtrec U.S.-Canada: 800-424-9300
Chemtrec International: 703-527-3887
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CCN: 678495

Safety Data Sheet Competent Person:

Customer Service
info@proteinmatrixllc.com

DATE PREPARED: October 12, 2013

REVISION DATE: October 26, 2013

PRODUCT NAME: **Industrial Grease Remediation**
FORMULA: Preparation/Mixture
PRODUCT USE: Amino acid infused alkaline cleaning product for the removal of fats, oils, and greases accumulated in and on reservoirs, pipes and surfaces.

Section 2: Hazards Identification

Regulation (EC) No 1272/2008

GHS Hazard Class		Skin Corrosive -- Category 1 CORROSIVE Eye Corrosive Category 1
Signal word:		Danger
Hazard Statement:		Causes severe skin burns and eye damage Wear eye protection /face protection.
Precautionary Statements:	Prevention	Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.
	Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
	Storage	Store locked up.
	Disposal	Dispose of contents/container by following the waste disposal requirements of your country, state, or local authorities.
HAZARD CLASSIFICATION:		Classified as hazardous based on IATA, IMDG, and DOT.
FIRE AND EXPLOSION:		Not considered flammable or combustible.
POTENTIAL HEALTH EFFECTS:		<10 % of mixture consists of ingredients of unknown acute toxicity
INGESTION:		Swallowing this material may be harmful and cause chemical burns, nausea, and vomiting.
INHALATION:		May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
SKIN CONTACT:		Causes skin burns and permanent skin damage.
EYE CONTACT:		Causes burns and severe eye burns..
OTHER:		None
CHRONIC EFFECTS OF OVEREXPOSURE:		None
APPEARANCE:		Yellow/orange liquid
NFPA Rating:		

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Industrial Grease Remediation	3	0	0	--

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	ACGIH TLV	OSHA PEL	NIOSH REL	CAS NO.	EINECS/ ELINCS	DANGER SYMBOL	RISK PHRASE	DSL CANADA	TSCA
Potassium Hydroxide	<5	2 mg/m3 Ceiling	2 mg/m3 Ceiling	2 mg/m3 Ceiling	1310-58-3	215-181-3	C 2% < C < 5%	R35, S1/2, S26, S37/39, S45	Y	Y
Water	>95	-----	-----	-----	7732-18-5	-----	-----	-----	Y	Y

Trade Secret (TS) Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13. The full text for all R-Phrases is shown in Section 16.

Section 4: First Aid Measures

INHALATION: Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.

SKIN CONTACT: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

INGESTION: If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

Section 5: Fire-fighting Measures

FLASH POINT: Not applicable

FLAMMABLE LIMITS IN AIR (% by vol): Not applicable

EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SPECIAL FIREFIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material does not burn.

Section 6: Accidental Release Measures

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection
Warn other workers of spill and contain spill.
Recover spill by using absorbent and sweeping up waste material.
In case of large spills, dike the spill, if possible. Call emergency services.
Place material into a chemical waste container.
Prevent spills or contaminated rinse water from entering sewers or watercourses.

DISPOSAL METHOD: disposal should be made in accordance with federal, state, and local regulations.

Section 7: Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store upright in a cool, dry place.
Keep container closed when not in use.
Do not store in aluminum container or use aluminum fittings or transfer lines.
Do not store with acids, peroxides, and oxidizing materials.
Use only with adequate ventilation.

Do not inhale vapors.
Avoid spilling and releasing vapor.
Wear proper protective equipment when handling this material.
Avoid contact with skin, eyes, or clothing.
Wash hands after handling this material.
Keep out of reach of children.
Follow all applicable local regulations for handling and storage.
Utilize chemical segregation.

INFORMATION ON EMPTIED CONTAINER

Dispose of this container according to local, state, and federal laws in your country.
Do not reuse this container. This container may be hazardous when emptied.

SPECIFIC USES:

This product is a water based cleaning concentrate designed to clean fats, oils, and greases accumulated in reservoirs, pipes, or venting and exhaust surfaces.

Section 8: Exposure Controls/Personal Protection

EXPOSURE LIMITS	Reference Section 2
VENTILATION:	Use in areas of adequate ventilation.
SPECIAL VENTILATION CONTROLS:	Special ventilation precautions not required
RESPIRATORY PROTECTION:	No respiratory protection normally required. In case of mist, spray, or aerosol exposure, wear suitable personal respiratory equipment.
PROTECTIVE GLOVES:	Neoprene or nitrile rubber gloves are recommended.
EYE PROTECTION:	No special eye protection is normally required. Where splashing is possible, wear safety glasses, goggles or face shield.
SKIN PROTECTION:	Suitable protective clothing to prevent skin contact
OTHER EQUIPMENT:	Make safety shower, eyewash stations, and hand washing equipment available in the work area.
WORK/HYGIENE PRACTICES:	Provide good personal hygiene after handling. Avoid contact with eyes. Wash hands after handling.

Section 9: Physical and Chemical Properties

APPEARANCE - COLOR:	Yellow/Orange
PHYSICAL STATE:	Liquid
ODOR:	Ammonia like odor

PRODUCT CRITERIA

	PRODUCT CRITERIA
ODOR THRESHOLD	Not applicable for product
PH	13.7 ± 0.2
FLASH POINT:	Not applicable for product
LOWER EXPLOSIVE LIMIT; UPPER EXPLOSIVE LIMIT	Not applicable for product
FLAMMABILITY (Solid, gas)	Not applicable for product
EXPLOSIVE PROPERTIES	Not applicable for product
OXIDIZING PROPERTIES	Not applicable for product
SPECIFIC GRAVITY (@25	1.01
EVAPORATION RATE:	Not applicable for product
% VOLATILE by VOLUME	Not applicable for product
PARTITION COEFFICIENT	Not applicable for product
AUTO IGNITION TEMPERATURE	Not applicable for product
DECOMPOSITION TEMPERATURE	Not applicable for product
BOILING POINT:	212 °F

MELTING POINT:	Not applicable for product
VAPOR PRESSURE	Not applicable for product
VAPOR DENSITY (AIR = 1)	Not applicable for product
SOLUBILITY IN WATER:	Not applicable for product
WATER SOLUBILITY IN THE SOLVENT	Not applicable for product
FREEZING POINT:	32 ºF
VISCOSITY	Similar to water
VOC CONTENT	Not Available for product

Section 10: Stability and Reactivity

STABILITY:	Stable
CONDITIONS TO AVOID:	None
INCOMPATIBILITY (MATERIALS TO AVOID):	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur

Section 11: Toxicological Information

There is no toxicological information available for the product mixture.

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 Oral Rat	333 mg/kg		Potassium Hydroxide
Skin Corrosion/Irritation		No information is available.		
Serious Eye Damage / Eye Irritation	Eyes rabbit	Corrosive 24 hours		Potassium Hydroxide
Respiratory or Skin Sensitization	Skin rabbit	Causes severe burns 24 hours		Potassium Hydroxide
Germ Cell Mutagenicity		No information is available.		
Carcinogenicity		Not listed	NTP	
		Not listed	IARC	
		Not listed	OSHA	
Reproductive Toxicity		No information is available.		
STOST -- Single Exposure		No information is available.		
STOST – Repeated Exposure		No information is available.		
Aspiration Hazard		No information is available.		

STOST = Specific Target Organ Systemic Toxicity

OTHER INFORMATION:
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Section 12: Ecological Information

		Chemical
BIODEGRADATION:	No information is available.	
BIOACCUMULATION:	No information is available.	
ECO TOXICITY:	No information is available.	
MOBILITY:	No information is available.	

Note: No environmental hazards were identified based on a review of available data for the ingredients in this product. Not all of the ingredients have been tested for Ecotoxicity.

Section 13: Disposal Considerations

WASTE FROM RESIDUES / UNUSED PRODUCTS:
Follow the waste disposal requirements of your country, state, or local authorities.

CONTAMINATED PACKAGING:
Recommend contaminated packaging material should be disposed of as stated above for residues and unused product.

RINSATE: Do not dispose of rinse water containing product in a sanitary sewer system or storm water drainage system.

Section 14: Transport Information

ROAD TRANSPORT:
ADR = International Carriage of Dangerous Goods by Road

UN NUMBER:	UN 3266
DOT PROPER SHIPPING NAME	Corrosive liquid, basic, inorganic, N.O.S. (Potassium Hydroxide)
DOT / ADR HAZARD CLASS:	Corrosive
DOT / ADR LABELS:	Class 8
PLACARD:	Corrosive, Class 8
DOT / ADR PACKAGING GROUP:	II

SEA TRANSPORT: IMDG

PROPER SHIPPING NAME	Corrosive liquid, basic, inorganic, N.O.S. (Potassium Hydroxide)
UN NUMBER SEA	UN 3266
CLASS:	8
PACKING GROUP:	II
EmS No.:	F-A, S-B
MARINE POLLUTANT:	No
SEA TRANSPORT NOTES:	Category A storage

AIR TRANSPORT: IATA/ICAO

UN NUMBER:	UN 3266
PROPER SHIPPING NAME	Corrosive liquid, basic, inorganic, N.O.S. (Potassium Hydroxide)
HAZARD CLASS:	8
PACKAGING GROUP:	II

Section 15: Regulatory Information

Directive 1999/45/EC

LABEL FOR SUPPLY:

CORROSIVE

RISK PHRASES:	R-Phrase:	R34	Causes burns
	S-Phrase:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
		S25	Avoid contact with Eyes

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:
This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:
This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.
The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:
This regulation requires a warning for California Proposition 65 chemical(s) under the statute.
The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Potassium Hydroxide
Pennsylvania hazardous substance code(s):	Potassium Hydroxide

New Jersey	Potassium Hydroxide
Illinois	Not listed
Michigan	Not listed
Rhode Island	Potassium Hydroxide

CANADA:
This MSDS/SDS will be non-compliant 3 years after the issue date. This MSDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to be WHMIS controlled as a Class E, Corrosive Material.

EUROPEAN UNION:
This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 1999/45/EC, Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.
WGK: 0 (German Federal Water Management Act) (Water Hazard Class)

Section 16: Other Information

European Community Hazards Identification:

R: 34	Causes burns
S: (2-)	Keep out of the reach of children.
S: 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S: 37/39	Wear suitable gloves and eye/face protection
S: 45	In case of accident or if you feel unwell seek medical advice immediately
Danger Symbol(s):	C Corrosive

Revision Comments:	Initial version October 12, 2013
Revision Number:	0
Information Sources:	RTECS, REACH, OSHA 29CFR 1910.1200

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MSDS AUTHORED BY:
aegis