

SAFETY DATA SHEET – V: 1.0

Section 1: Identification

(a) Product identifier used on the label

(b) Other means of identification

(c) Recommended use of the chemical and restrictions on use

(d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

(e) Emergency phone number

Product Identifier

Product Form: Blend (Full Concentrate)

Product Name: BioBased Asphalt Industrial Degreaser/Solvent.

Intended Use of Product

For professional use only, NOT to be used as an Asphalt Release Agent.

Company: Bio Rejuv, LLC

695 Solomon Run Road

Johnstown, PA 15904

In emergency call 911.

For information about this MSDS, use this department contact phone#: 814-724-0992

Section 2: Hazard(s) Identification

See <https://www.sigmaaldrich.com/safety-center/globally-harmonized.html> for a list of hazard classifications, signal words, hazard statements, pictograms, precautionary statements, and a description of hazards.

Where an ingredient with unknown acute toxicity is used in a mixture at a concentration $\geq 1\%$ and the mixture is not classified based on testing of the mixture as a whole, a statement that % of the mixture consists of ingredient(s) of unknown acute toxicity is required.

Classification of the Substance or Mixture

Hazard Classification: (GHS-US)

Skin Irrit. 2 H315

Skin Sens. 1 H317

Asp. Tox. 1 H304

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US): 3



Hazard Statements:

H304 – Do not swallow

H315 – Causes skin irritation

H317 – May cause an allergic skin reaction

Precautionary Statements:

P210 – Keep away from heat, hot surfaces, open flames, sparks. – No smoking
P233 – Keep container tightly closed
P240 – Ground/bond container and receiving equipment
P241 – Use explosion-proof electrical, lighting, ventilation equipment
P242 – Use only non-sparking tools
P243 – Take precautionary measures against static discharge
P261 – Avoid breathing mist, spray, vapors
P264 – Wash hands, forearms, and exposed areas thoroughly after handling
P272 – Contaminated work clothing should not be allowed out of the workplace
P273 – Avoid release to the environment
P280 – Wear eye protection, face protection, protective clothing, protective gloves
P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352 – IF ON SKIN: Wash with plenty of soap and water
P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P321 – Specific treatment (see Section 4)
P331 – If swallowed, do NOT induce vomiting
P332+P313 – If skin irritation occurs: Get medical advice/attention
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention
P362+P364 – Take off contaminated clothing and wash before reuse
P370-P378 – In case of fire: Use appropriate media for extinction
P391 – Collect spillage
P403+P235 – Storage in a well-ventilated place. Keep out of direct sunlight unless covered
P405 – Store locked up
P501 – Dispose of contents/container according to local, regional, territorial, provincial national, and international regulations

Description of other hazards:

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) Not available

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known

Section 3: Composition/ Information on Ingredients

(a) Chemical name

(b) Common name and synonyms

(c) CAS number and other unique identifiers

(d) Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance

For Mixtures

In addition to the information required for substances:

(a) The chemical name and concentration (exact percentage) or

concentration ranges of all ingredients which are classified as health hazards in accordance with Federal Register Vol. 77, No. 58

(1) are present above their cut-off/concentration limits; or

(2) present a health risk below the cut-off/concentration limits.

(b) The concentration (exact percentage) must be specified unless a trade secret claim is made

Chemical Name	CAS#	Classification (GHS-US)
Oleate, methyl ester (Recycled source) 60% to 99%	112-62-9	Skin Irrit. 2, H315; Eye Irrit. 2B, H320
Emulsifier (Proprietary) 2% to 20%	127087-87-0	Not Classified

Section 4: First-Aid Measures

(a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

(b) Most important symptoms/effects, acute and delayed

(c) Indication of immediate medical attention and special treatment needed, if necessary

Description of First Aid Measures

General: Never give any by mouth to unconscious person. If you feel unwell, seek medical advice (show the label if possible).

After skin contact: Immediately remove contaminated clothing. Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

After eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

After inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

After swallowing: Do NOT induce vomiting. Rinse mouth. Immediately call POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation. May cause allergic reaction. May be fatal if swallowed and enters airways.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation. May cause allergic skin reaction.

Eye Contact: May cause eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Need

If you feel unwell, seek medical attention (show the label where possible)

Section 5: Fire-Fighting Measures

(a) Suitable (and unsuitable) extinguishing media

(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products)

(c) Special protective equipment and precautions for fire-fighters

Extinguishing Media

Suitable extinguishing agents: Dry chemical, carbon dioxide, water spray, foam, fog.

Unsuitable Extinguishing Media: Do not use heavy water stream. Use of heavy stream of water may spread fire.

Special hazards arising from the substance or mixture: Rags soaked with any solvent present a fire hazard and should always be stored in UL listed or Factory Mutual approved covered containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions, can lead to spontaneous combustion.

Advice for firefighters Treat as an oil fire.

Special Hazards Arising from the Substance or Mixture

Special protective equipment for firefighters:

Precautionary Measures Fire: Exercise caution when fighting a chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Section 6: Accidental Release Measures

(a) Personal precautions, protective equipment, and emergency procedures

(b) Methods and materials for containment and cleaning up

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all eye and skin contact and do not breathe vapor and mist. Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not allow product to spread into the environment.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Collect the residue by means of a non-combustible absorbent material. Use only non-sparking tools. Eliminate all ignition sources. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection

Section 7: Handling and Storage

(a) Precautions for safe handling

(b) Conditions for safe storage, including any incompatibilities

Precautions for Safe Handling

Additional Hazards When Processed: Do not puncture or incinerate container. When heated, material could emit irritating fumes. Any proposed use of this product at elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Contaminated work clothing should be allowed out of the workplace. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including and Incompatibilities

Technical Measures: Proper grounding to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from direct sunlight or other heat sources. Store away from incompatible materials. Store away from ignition sources.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

For professional use only.

Section 8: Exposure Controls/Personal Protection

(a) DOSH permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available

(b) Appropriate engineering controls

(c) Individual protection measures, such as personal protective equipment

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into the environment.

Consumer Exposure Controls: Do not eat, drink or smoke during use.

Section 9: Physical and Chemical Properties

- (a) Appearance (physical state, color, etc.)
- (b) Odor
- (c) Odor threshold
- (d) pH
- (e) Melting point/freezing point
- (f) Initial boiling point and boiling range
- (g) Flash point
- (h) Evaporation rate
- (i) Flammability (solid, gas)
- (j) Upper/lower flammability or explosive limits
- (k) Vapor pressure
- (l) Vapor density
- (m) Relative density
- (n) Solubility(ies)
- (o) Partition coefficient: n-octanol/water
- (p) Auto-ignition temperature
- (q) Decomposition temperature
- (r) Viscosity

Information on Basic Physical and Chemical Properties

Form: Liquid

Appearance: Pale yellow/white

Odor: Citrus

Odor threshold: Not available

pH: Not available

Melting point/melting range: Not available

Freezing point: Not available

Flash point: 321°F

ISO 9038 Combustion Test: PASS

(Sustained Combustibility of Liquids, ISO 9038, 60.5°C, sec - Pass

Sustained Combustibility of Liquids, ISO 9038, 75.0°C, sec - Pass)

Evaporation rate: Not available

Flammability: Not available

Upper/lower flammability or explosive limits: Not available

Auto ignition temperature: Not available

Decomposition Temperature: Not available

Vapor pressure: 2mm Hg

Vapor density at 20°C: Not available

Relative density: 0.881 (Water=1)

Solubility in/Miscibility with water: Not available

Partition coefficient: n-octanol/water: Not available

Viscosity: Not available

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.

Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge

Section 10: Stability and Reactivity

- (a) Reactivity*
- (b) Chemical stability*
- (c) Possibility of hazardous reactions*
- (d) Conditions to avoid (e.g., static discharge, shock, or vibration)*
- (e) Incompatible materials*
- (f) Hazardous decomposition products*

Reactivity: potential combustible vapor

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Open flame. Ignition sources. Incompatible materials. Direct sunlight. Extremely high or low temperatures.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Section 11: Toxicological Information

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

(a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

(b) Symptoms related to the physical, chemical and toxicological Characteristics

(c) Delayed and immediate effects and also chronic effects from short and long-term exposure

(d) Numerical measures of toxicity (such as acute toxicity estimates)

(e) Whether the hazardous chemical is listed in the National

Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by

DOSH

Information on Toxicological Effects – Product

Acute toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation. May Cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: May be fatal if swallowed and enters airways.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data:

Section 12: Ecological Information (non-mandatory)

- (a) Ecotoxicity (aquatic and terrestrial, where available)*
- (b) Persistence and degradability*
- (c) Bioaccumulative potential*
- (d) Mobility in soil*
- (e) Other adverse effects (such as hazardous to the ozone layer)*

Persistence and Degradability Not available

Bioaccumulative Potential Not available

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release into environment

Section 13: Disposal Considerations (non-mandatory)

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release into environment.

Section 14: Transport Information

- (a) UN number*
- (b) UN proper shipping name*
- (c) Transport hazard class(es)*
- (d) Packing group, if applicable*
- (e) Environmental hazards (e.g., Marine pollutant (Yes/No));*
- (f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)*
- (g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises*

Section 15: Regulatory Information (non-mandatory)

Safety, health and environmental regulations specific for the product in question

US Federal Regulations

Oleate acid, methyl ester, vegetable oil (recycled source) (112-62-9)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory

Emulsifier (24938-91-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Oleate acid, methyl ester (112-62-9)

U.S. – Texas – Effects Screening Levels – Long Term

U.S. – Texas – Effects Screening Levels – Short Term
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Canadian Regulations

Oleate acid, methyl ester (112-62-9)

Listed on the Canadian DSL (Domestic Substances List) inventory

Emulsifier (24938-91-8)

Listed on the Canadian DSL (Domestic Substances List) inventory

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16: Other Information

The date of preparation of the SDS or the last change to it

SDS date of preparation/update: 1/16/2025

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Potentially combustible liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be constructed as guaranteeing any specific property of the product.