



RESTORED
ENVIRONMENTAL

SAFETY DATA SHEET

1: Identification

Product Identifier – **Liquid Optimizer**

Product Codes – A35014, A35064, A35250, W35014, W35064, W35250

Recommended Use – Biological compounds to increase microbial growth and reproduction.

Recommended Restrictions – None Known

Manufacturer Company Name – Restored Environmental, 6734B West Pershing Ave, Visalia, CA 93291 USA

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2: Hazard Identification

Physical Hazards – Not Classified

Health Hazards – Not Classified

Environmental Hazards – Not Classified

OSHA Hazards – Not Classified

Label Elements

Hazard Symbol – None

Signal Word – None

Hazard Statement - None:

Precautionary Statement

Prevention – None

Response – In case of fire – non-flammable – use media proper to primary cause of fire

Storage – Store in a dry place

Disposal – Dispose contents/container in accordance with local/regional/national/international regulations

Hazards not otherwise classified (HNOC) – None known

Supplemental Information - None

3: Composition / Information On Ingredients

99.9% Naturally occurring biochemical mixture derived from an aquatic ecosystem containing blue green algae

0.1% Hydrochloric Acid (for stable shelf life)

4: First Aid Measures

Inhalation – Remove to fresh air and support respiration.

Skin Contact – Wash affected area thoroughly with soap and water.

Eye Contact – Flush with clear water for at least 15 minutes. Get medical attention if irritation persists.

Ingestion - Drink warm water and induce vomiting. Contact physician if condition persists.

Most important Symptoms, acute and delayed – Pre-existing skin or respiratory conditions may be further aggravated.

5: Fire Fighting Measures

Suitable extinguishing media - Non-flammable – use extinguishing media suited to the source of the fire.

Unsuitable extinguishing - Non-flammable – use extinguishing media suited to the source of the fire.

Specific hazards arising from the chemical – Non-hazardous

Special protective equipment and precautions for fire fighters – None except that necessary for the primary cause of fire.

Firefighting equipment/instructions – Those necessary for the primary cause of the fire.

Specific methods – Use standard firefighting measures and consider the hazards of other involved materials.

General fire hazards – Non-combustible liquid.

6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures – None necessary

Methods and materials for containment and clean up – Mop bucket. If product is uncontaminated, transfer to container and reuse.

Environmental procedures – No procedures specified

7: Handling and Storage

Precautions for safe handling – Observe standard safety handling precautions. Non-toxic.
Conditions for safe storage including incompatibilities– Indoor storage in a dry place.

8: Exposure Control / Personal Protection

Occupational exposure limits – No exposure limits for ingredients.
Biological limit values – No biological exposure limits noted for ingredients.
Appropriate Engineering Controls – No engineering controls noted.
Individual protection measures such as personal protective equipment
 Eye/face protection – Wear goggles
 Skin protection – No protection noted
 Thermal hazard – None noted
 General hygiene considerations – Observe good personal hygiene.

9: Physical and Chemical Properties

Appearance

 Physical state - Liquid
 Form – Liquid
 Color – Blue Green

Odor – None

Odor threshold – Not available

pH – mid range

Melting point/freezing point - 32°F

Initial boiling point and boiling range – Not available

Flash point – Not available

Evaporative rate – 100%

Flammability (solid gas) – Non flammable

Upper/flammability or exposure limits

 Flammability limit lower % - Not available
 Flammability limit upper % - Not available
 Exposure limit lower % - Not available
 Exposure limit upper % - Not available

Vapor pressure – 17 mm Hg

Vapor density – Not available

Relative density – Not available

Solubility (ies)

 Solubility (water) – 100%

Partition coefficient – Not available

(N-octanol/water) – Not available

Auto-ignition temperature – Not available

Decomposition temperature – Not available

Viscosity – Not available

Other information

 Molecular formula – Not available
 Molecular weight – Not available
 Specific gravity – Not available
 VOC (weight) – Not available

10: Stability and Reactivity

Reactivity – Stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability – Stable under normal conditions.

Possibility of Hazardous Reactions – No dangerous reaction known under conditions of normal use.

Incompatible Materials - Strong oxidizing agents, oxidizing or reducing agents.

Hazardous decomposition products – No hazardous decomposition products are known.

11: Toxicological Information

Information or likely routes of exposure

Inhalation – No adverse effects due to inhalation are expected.

Skin contact – No adverse effects due to skin contact are expected.

Eye contact - No adverse effects due to eye contact are expected.

Ingestion - No adverse effects due to ingestion are expected.

Symptoms related to the physical, chemical toxicological characteristics

Information on toxicological effects

Acute toxicity – Non-toxic

Skin corrosion/irritation – No adverse effects

Serious eye damage/eye irritation – Direct contact with eyes may cause temporary irritation

Respiratory or skin sensitization

Respiratory sensitization – Not available

Skin sensitization – Not expected to cause skin sensitization

Germ cell mutagenicity – No data available to indicate product or any components present at greater than 0.3% are mutagenic or genotoxic.

Carcinogenicity – Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001 – 1050 – Not listed

Reproductive toxicity – Not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure – Not classified

Specific target organ toxicity – repeated exposure – Not classified

Aspiration Hazard – Not available.

12: Ecological Information

Ecotoxicity – Not classified as environmentally hazardous

Persistence and degradability – Biodegradable

Bioaccumulative potential – Not expected

Mobility in soil – Mobile

Other adverse effects – No adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

13: Disposal Considerations

Disposal Instructions – Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations – Dispose in accordance with all applicable regulations.

Hazardous waste code – The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products – Dispose of in accordance with local regulations.

Contaminated packaging – Empty containers should be taken to an approved waste handling site for recycling

14: Transport Information

DOT – Not regulated as dangerous goods.

IATA – Not regulated as dangerous goods.

IMDG – Not regulated as dangerous goods.

Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code – Not available.

15: Regulatory Information

US Federal Regulations – Not regulated

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D) - Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4) – Not listed

SARA 304 Emergency release notification – Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001 – 1050) – Not listed

Superfund Amendments and Regulated Substances Act of 1986 (SARA)

Hazard Categories

Immediate Hazard – No

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

SARA 302 Extremely Hazardous Substance – Not listed

SARA 311/312 Hazardous Chemical – Not listed

SARA 313 (TRI reporting) – Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List – Not regulated

Safe Drinking Water Act (SDWA) – Not regulated

US state regulations

California Controlled Substances, CA Department of Justice (California Health and Safety Code Section 11100) – Not listed

Massachusetts RTK Substance List – Not regulated

New Jersey Worker and Community Right-to-know Act – Not listed

Pennsylvania Worker and Community Right-to know Law – Not listed

Rhode Island RTK – Not regulated

California Proposition 65 – California Safe Drinking Water and Toxic Enforcement Act. These products are not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International inventories

Countries or Regions	Inventory Name	On Inventory (Yes/No)*
Australia	Australia Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A No" indicates that one or more of the components of the product are not listed or exempt for listing on the inventory administered by the governing country(s).

16: Other Information

Issue date – 9-1-16

Version # - 1

HMIS ratings

Health – 0

Flammability – 0

Physical Hazard – 0

Personal Protection – 0

Disclaimer – The information in the sheet was written based on the best knowledge and experience currently available.

Revision information – This document has undergone significant changes and should be reviewed in its entirety.