

SAFETY DATA SHEET – EDS-ER™

Date of Issue: Issue #1, August 2025 (valid for 5 years)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- 1.1 Product Name:** EDS-ER™
Other Names: Electron Donor Solution – Extended Release
Product Form: Mixture
- 1.2 Recommended Use:** Remediation of contaminated groundwater and soils.
 Use as recommended by the label.
- 1.3 Manufacturer Name:** **Micronovo Technologies Pty Limited** (A.B.N. 92 676 406 965)
 Gate 3, Botany Industrial Park,
 Denison St, Banksmeadow NSW
Email: info@micronovotech.com.au, Internet: www.micronovotech.com.au
- 1.4 Emergency Contact:** +61 425 279 798
 Product information (Monday – Friday, 9:00am – 17:00pm EST)

2. HAZARDS IDENTIFICATION

- 2.1 Poisons Schedule:** Not scheduled.
- 2.2 Globally Harmonised System**
Hazard Classification: No applicable GHS categories. This product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Signal Word: None.
- 2.3 National Transport Commission (Australia)**
Dangerous Goods Classification: NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
- 2.4 Safe Work Australia**
Hazard Classification: NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 Chemical Formula:** Mixture.
- 3.2 Hazardous Components**
- | Chemical Name | Concentration (%) | CAS Number |
|---------------|-------------------|------------|
| None | None | None |
- 3.3 Nonhazardous Components**
- | Chemical Name | Concentration (%) | CAS Number |
|---------------|-------------------|-------------|
| Canola Oil | 88 to 93% | 120962-03-0 |
| Emulsifiers | 7 to 12% | Proprietary |

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4. FIRST AID MEASURES

- 4.1 Eye Contact:** IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
*Suitable emergency eye wash facility should be immediately available.
- 4.2 Skin Contact:** Wash affected area with soap and water. If irritation or redness results from prolonged skin contact, seek medical attention.
- 4.3 Ingestion:** IF SWALLOWED: Thoroughly rinse mouth with water. Get medical advice/attention if you feel unwell.
*First aid is not generally required.
- 4.4 Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
*Due to product form/nature of use, an inhalation hazard is not anticipated.
- 4.5 Advice to Doctor:** Treat symptomatically.
* Most important symptoms and effects, both acute and delayed: No information available.
* Indication of any immediate medical attention and special treatment needed: No information available.

5. FIRE FIGHTING MEASURES

- 5.1 General Measures:** Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
- 5.2 Flammability Conditions:** Combustible liquid (C2). May burn but does not ignite readily.
- 5.3 Extinguishing Media:** Use dry chemical, Carbon dioxide (CO₂), foam or water spray for extinction.
- 5.4 Fire and Explosion Hazard:** Toxic gases may be evolved in a fire situation. Containers may explode when heated.
If a material with a large surface area, like rags, filters etc., is saturated with vegetable oils spontaneous combustion may occur.
- 5.5 Hazardous Products of Combustion:** May evolve carbon oxides, sulfurous gases (SO_x) and hydrocarbons when heated to decomposition.
- 5.6 Special Fire Fighting Instructions:** Contain runoff from fire control or dilution water - Runoff may cause pollution.
- 5.7 Personal Protective Equipment:** Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
- 5.8 Flash Point:** >179°C [based on emulsifiers, Canola Oil component is higher).
- 5.9 Lower Explosion Limit:** No Data Available
- 5.10 Upper Explosion Limit:** No Data Available

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5.11 Auto Ignition Temperature: No Data Available

5.12 Hazchem Code: No Data Available.

6. ACCIDENTAL RELEASE MEASURES

6.1 General Response Procedure: Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material (slip hazard). Avoid breathing vapours and contact with eyes, skin and clothing.

6.2 Clean-up Procedures: Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION 13)

6.3 Containment: Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Inform the relevant authorities if this occurs.

6.4 Decontamination: No information available.

6.4 Environment Precautionary Measures: Prevent product from entering drains and waterways

6.5 Evacuation Criteria: Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

6.6 Personal Precautionary Measures: Use personal protective equipment as required (see SECTION 8

7. HANDLING & STORAGE

7.1 Handling: Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/aerosols and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). Combustible liquid: Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2 Storage: Store in a cool, dry and well-ventilated place, out of direct sunlight. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10)

7.3 Container: Store in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 General: No specific exposure standards are available for this product. For Vegetable oil mists (except castor oil, cashew nut or similar oils):

- Safe Work Australia Exposure Standard: TWA = 10 mg/m³.

- New Zealand Workplace Exposure Standard: TWA = 10 mg/m³.

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- 8.2 Exposure Limits:** No Data Available.
- 8.2 Biological Limits:** No information available.
- 8.3 Engineering Measures:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
*Maintain vapour levels below the recommended exposure standard.
- 8.4 Personal Protective Equipment:**
- Respiratory protection:** Not required under normal conditions of use. In case of inadequate ventilation, wear respiratory protection (refer to AS/NZS 1715 & 1716).
- Eye/face protection:** Wear appropriate eye protection to avoid eye contact. When using large quantities or where heavy contamination is likely, wear splash-proof goggles.
- Hand protection:** When using large quantities or where heavy contamination is likely, wear PVC or rubber gloves.
- Skin/body protection:** Wear appropriate personal protective clothing to avoid skin contact.
- 8.5 Special Hazards Precautions:** No information available.
- 8.6 Work Hygienic Practices:** Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Viscous liquid
Odour	Pleasant
Colour	Yellow to amber
pH	No Data Available
Vapour Pressure	<0.1 kPa (@ 25°C) – based on each component of mixture.
Relative Vapour Density	No Data Available
Boiling Point	340°C – based on Canola Oil
Melting Point	<20°C – based on Canola Oil
Freezing Point	No Data Available
Solubility	Dispersible in water. Forms an emulsion on contact with water.
Specific Gravity	Approx. 0.91 - 0.93
Flash Point	>179°C (based on emulsifiers, Canola Oil component is higher).
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	340°C – based on Canola Oil

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Density	Approx. 910 to 930kg/m ³
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	No information available
Flame Propagation or Burning Rate of Solid Materials	No information available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid (C2). May burn but does not ignite readily.
Reactions That Release Gases or Vapours	May evolve carbon oxides and hydrocarbons when heated to decomposition
Release of Invisible Flammable Vapours and Gases	No information available

10. STABILITY & REACTIVITY

10.1 Chemical Stability:	Stable under recommended conditions of storage.
10.2 Conditions to Avoid:	Keep away from heat and sources of ignition
10.3 Incompatible Materials:	Incompatible/reactive with oxidising agents.
10.4 Hazardous Decomposition Products:	May evolve carbon oxides, sulfurous oxides (SO _x) and hydrocarbons when heated to decomposition.
10.5 Hazardous Polymerisation:	Polymerisation is not expected to occur.

11. TOXICOLOGICAL INFORMATION

11.1 General Information on toxicological effects:	<p>Acute toxicity: No known toxicological effects from this product. Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Not classified as a skin irritant. Skin irritation is not anticipated under normal conditions of use.</p> <p>Eye damage/irritation: Not classified as an eye irritant. Eye irritation is not anticipated under normal conditions of use.</p>
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Respiratory/skin sensitisation: Not classified as causing skin or respiratory sensitisation.

Germ cell mutagenicity: No evidence of mutagenic effects.

Carcinogenicity: No evidence of carcinogenic effects.

Reproductive toxicity: No relevant or reliable studies were identified.

STOT (single exposure): No known effects from this product.

STOT (repeated exposure): No known effects from this product.

Aspiration toxicity: This product does not present an aspiration hazard.

11.2 General Information on

likely routes of exposure:

Ingestion: No known effects from this product.

Eye contact: Evidence exists, or practical experience predicts, that the material may cause eye irritation

Skin contact: No known effects from this product.

Inhalation: No known effects from this product.

Chronic effects: No known effects from this product

11.3 Additional information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities.

12.2 Persistence/ degradability:

Product is readily biodegradable in wastewater treatment systems.

12.3 Mobility:

No information available.

12.4 Environmental fate:

Prevent entry into drains and waterways.

12.5 Bioaccumulation Potential

This product is not expected to bioaccumulate.

12.6 Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods:

Dispose of contents/container in accordance with local/regional/national regulations.

13.2 Special Precautions for

Landfill or Incineration:

Dispose of contents/container in accordance with local/regional/national regulations. Waste is suitable for incineration.

14. TRANSPORT INFORMATION

Land Transport Australia ADG Code

14.1 Proper Shipping Name:

None Allocated.

14.2 Class:

Class C2 - Combustible Liquids - Flash Point >93°C.

14.3 Subsidiary Risk(s):

No Data Available.

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14.4 UN Number:	No Data Available.
14.5 Hazchem:	No Data Available.
14.6 Pack Group:	No Data Available.
14.7 Special Provisions:	No Data Available.
14.8 Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport

15. REGULATORY INFORMATION

General Information:	No Data Available.
Poisons Schedule (Australia):	Not Scheduled.

16. OTHER INFORMATION

Revision date:	1-Aug-2025
Expiry date:	1-Aug-2030
Prepared by:	Micronovo Technologies Pty Ltd Email: info@micronovotech.com.au Internet: www.micronovotech.com.au

Key/Legend:

<	Less Than
>	Greater Than
ADG	Code Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition AICS Australian Inventory of Chemical Substances
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code that provides information to emergency services
SWA	Safe Work Australia
UN Number	United Nations Number

Disclaimer:

This Safety Data Sheet (SDS) summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS and consider the information in the context of how the product will be handled and used in the workplace. Users should make an independent decision regarding the accuracy of this information based on their needs and data available to them. All substances and mixtures may present unknown hazards and all necessary safety precautions should be taken.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, that is also available on request.

End of SDS