

Material Safety Data Sheet

Generon Ltd., 12 Rawcliffe House, 12 Howarth Road,
Maidenhead, Berks SL6 1AP.

Section 1 – Product and Company Information

Product Name: Glutathione Affinity Superflow
Product Number: SuperGlu 2, 10, 25, 100 or 500
Company Name and Address: Generon Ltd.
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Section 2 – Composition/Information on Ingredient

The only hazards identified with this product are those associated with the storage buffer solution containing 20% SDA-3A denatured Ethanol. **Data presented in this MSDS, unless otherwise stated, are for 200 proof SDA-3A denatured alcohol. Data for hazards associated with lower concentrations of this material are not available.**

| Ingredient | CAS # | Conc. in Buffer |
|---------------------------|--------------|------------------------|
| SDA-3A Ethanol, 200 proof | 64-17-5 | 20% |
| Containing: Methanol | 67-56-1 | 1% |

Synonyms

SDA-3A Ethanol, 200 proof-Ethyl Alcohol, 200 Proof, Denatured
Methanol-Wood Alcohol; Wood Spirit; Carbinol

Section 3 – Hazards Identification

Emergency Overview

Caution: Avoid skin contact, ingestion and inhalation. Material burns with little or no visible flame. May cause irritation of the eyes and upper respiratory tract. *Ingestion, inhalation or absorption of Methanol may cause blindness or death.*

NFPA Rating

| | | | |
|-----------|------------|------------------|----------------|
| Ethanol: | Health (1) | Flammability (3) | Reactivity (0) |
| Methanol: | Health (3) | Flammability (3) | Reactivity (0) |

Section 4 – First Aid Measures

Oral Exposure

If swallowed and the victim is conscious, have victim drink water to dilute. Induce vomiting only at the instruction of a physician. Seek immediate medical attention.

Inhalation Exposure

If inhaled, remove person to fresh air. If breathing is difficult, administer oxygen. If victim is not breathing, administer artificial respiration. Contact a physician.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water. Contact a physician if irritation develops.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Contact a physician if irritation persists.

Section 5 – Fire Fighting Measures

Autoignition Temperature

(200 proof SDA-3A denatured alcohol) - 363°C

Suitable Extinguishing Media

Water spray, dry chemical, Carbon dioxide or alcohol-resistant foam.

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazards

Emits Oxides of Carbon (CO₂, CO) under fire conditions.

Section 6 – Accidental Release Measures

Personal Precautions

Eliminate all sources of ignition. Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

Methods for Cleanup

(Buffer-resin suspension) - Absorb with vermiculite or appropriate absorbent material and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete. Follow all applicable federal, state and local regulations.

Section 7 – Handling and Storage

Handling-User Exposure

Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure.

Suitable Storage

Store in a cool, dry environment in a tightly sealed container according to label instructions.

Section 8 – Exposure Controls

Engineering Controls

Ensure that safety shower and emergency eye wash station are proximal to the work area. Provide exhaust ventilation when required.

Personal Protective Equipment

Respiratory

Approved vapor respirator

Hand

Chemical resistant gloves

Eye

Chemical splash goggles or safety glasses

Skin Specific

Lab coat or appropriate protective clothing

Section 9 – Physical/Chemical Properties

Data provided are for SDA-3A Ethyl Alcohol, (200 proof, denatured)

| | | | |
|-------------------------|-----------------------------|-----------------------|-------------------|
| Appearance | Clear liquid and suspension | Solubility | Soluble in water |
| Odor | Alcohol, slightly sweet | Melting Point | -144°C |
| pH | N/A | Boiling Point | 78.4°C |
| Specific Gravity | 1.59 @ 20°C | Vapor Pressure | 44.6 mm Hg @ 20°C |

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Section 10 – Stability and Reactivity

Stability

Product is chemically stable.

Materials/Conditions to Avoid

Strong oxidizers, excessive heat and ignition sources. Resin suspension may be damaged with exposure to strong acids or freezing conditions.

Hazardous Decomposition Products

Thermal decomposition may yield oxides of Carbon (CO, CO₂)

Hazardous Polymerization

Hazardous polymerization will not occur

Section 11 – Toxicological Information

Route of Exposure

Skin Contact

Dermatitis may occur after prolonged or repeated exposure.

Eye Contact

Temporary irritation, tearing and pain.

Inhalation

May cause headache, dizziness and upper respiratory irritation.

Ingestion

Depression of the CNS, nausea, drunkenness. *Methanol ingestion, even in small quantities, can cause blindness and death.*

Signs and Symptoms of Exposure

Acute exposure by inhalation may cause irritation of the eyes and upper respiratory tract. Additional effects may include dizziness, drowsiness and headache. Acute exposure by ingestion can cause drunkenness, CNS depression, nausea and vomiting. *Ingestion of Methanol in amounts as small as 15 mL can cause blindness, and 100 mL, death.* Chronic overexposure to Ethanol produces a range of health effects including cardiac myopathy and liver damage.

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

All recovered material should be packaged, labeled, transported and disposed of in conformance with applicable federal, state and local laws and regulations.

Section 14 – Transport Information

DOT

Proper Shipping Name

Ethanol solutions (storage buffer)

Non-Hazardous for Transport

Not regulated by DOT in concentrations or volumes sold by Generon.

Section 15 – Regulatory Information

Regulated in Volumes and Concentrations Sold by Generon Ltd.

TSCA No

SARA No

CERCLA No

California Prop. 65

Ethyl Alcohol: Developmental toxicity (when in alcoholic beverages).

Section 16 – Other Information

Disclaimer

The information contained herein is presented in good faith and is believed to be correct as of the date prepared, but does not purport to be all inclusive. Regulatory requirements are subject to change and may differ depending on location. It is the customer's responsibility to ensure that its activities are in compliance with local, state, federal or provincial laws.

No information contained in this document is to be taken as a warranty for which Generon Ltd bears responsibility. Generon Ltd. shall not be held liable for any damage resulting from handling or from contact with the product. All materials may present hazards and should be used with caution. Although specific hazards are described, we cannot guarantee that these are the only hazards that exist.