# SAFETY DATA SHEET

## **Section 1: Identification**

**Product Name:** Proteometer Reconstitution Reagent **Chemical Name/Synonyms:** Dimethyl Sulfoxide (DMSO)

Company: Novilytic, LLC

1281 Win Hentschel Blvd. West Lafayette, IN 47906

(765)340-7140

In case of emergency call 911.

For information about this SDS, use the above contact phone#

## Section 2: Hazard(s) Identification

#### **Hazard Classification:**

Skin Irrit. 2 (28.4%) Eye Irrit. 2 (33.6%) STOT SE 3 (13.8%)

Flammable liquids - Category 4

Specific target organ toxicity - Single exposure - Category 2 (respiratory organs)

# **Precautionary Statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280: Wear protective gloves/eye protection/ face protection.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/ container to an approved waste disposal plant.

**Description of Other Hazards: N/A** 

Appearance of Substance: colorless liquid

## Section 3: Composition/Information on Ingredients

Formula: C2H6OS

Molecular weight: 78.13 g/mol

CAS-No.: 67-68-5 EC-No.: 200-664-3

| Chemical Name      |                 | Conc.   |
|--------------------|-----------------|---------|
| Dimethyl sulfoxide | MethylSulfoxide | <=100 % |

#### Section 4: First-Aid Measures

**After skin contact:** In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

**After eye contact:** After eye contact: rinse out with plenty of water. Remove contact lenses.

**After inhalation:** If inhaled, move person into fresh air. If not breathing, provide artificial respiration. Consult a physician if necessary.

**After swallowing**: After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

## **Section 5: Fire-Fighting Measures**

**Suitable extinguishing agents:** Water Foam Carbon dioxide (CO2) Dry Powder **Special protective equipment for firefighters:** In the event of fire, wear a self-contained breathing

apparatus.

## Special hazards arising from the substance or mixture:

Carbon Oxides

Sulfur Oxides

Combustible

Fire may cause evolution of: Sulfur oxides

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

#### **Further Information:**

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **Section 6: Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

**Measures for environmental protection:** Do not let product enter drains.

**Measures for cleaning/collecting:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

## **Section 7: Handling and Storage**

**Handling:** Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

Storage Class: 10: Combustible liquids

#### **Section 8: Exposure Controls/Personal Protection**

Maximum Allowable Concentration (MAK): 50.0 [ppm]

Occupational Exposure Limits (OEL): 160 mg/m

**Breathing equipment:** Use local and general ventilation

**Protection of hands:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

# **Section 9: Physical and Chemical Properties**

**Appearance:** Form: liquid, Color: colorless

**Odor:** odorless

**Odor threshold:** No data available

pH: not determined

Melting point/melting range: 16-19 °C

**Boiling point/boiling range:** 189.00 to 190.00 °C @ 760.00 mm Hg

**Flash point:** 87 °C @ 760.00 mm Hg **Evaporation rate:** No data available.

Flammability (solid, gas): No data available.

**Upper/lower flammability or explosive limits:** 28.5 %(V) / 2.6% (V)

Auto ignition temperature: 300 - 302 °C @ 760.00 mm Hg

**Danger of explosion:** No data available. **Vapor pressure:** 0.60 mm Hg at 25 °C

**Vapor density:** 2.71 (air = 1)

# **Section 10: Stability and Reactivity**

**Reactivity:** Forms explosive mixtures with air on intense heating.

**Chemical stability**: Stable under recommended ambient storage conditions.

**Conditions to avoid:** Strong heating. **Incompatible materials:** No data available.

**Hazardous decomposition products:** In the event of fire, see section 5.

# **Section 11: Toxicological Information**

**Acute toxicity:** Oral LD50 (rat): 14,500-28,300 gm/kg

Dermal LD50 (rat): 40,000mg/kg

Inhalation LC50 (rat): >5.33mg/l/4h (vapor)

# Potential routes of exposure/potential health effects

**Skin:** No data available. **Eve:** No data available.

<u>Inhalation:</u> No data available. <u>Ingestion:</u> No data available.

<u>Carcinogenic effects:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC or NTP. No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

<u>Mutagenic effects:</u> No data available. <u>Reproductive toxicity:</u> No data available.

**Sensitization:** No data available.

## Section 12: Ecological Information (non-mandatory)

**Ecotoxicity:** Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants. Do not empty into drains.

Mobility: Will likely be mobile in the environment due to its water solubility

**Biodegradation:** No data available. **Bioaccumulation:** No data available.

# **Section 13: Disposal Considerations (non-mandatory)**

**Product:** Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# **Section 14: Transport Information (non-mandatory)**

**DOT regulations:** Combustible Liquid, not regulated for transport in this quantity. According to 49 CFR §173.150(f)(1), this material should reclassified as NA 1993, Combustible Liquid, NOS if it is shipped in bulk

- Hazard class: Not dangerous goods.
- Land transport ADR/RID (cross-border): Not dangerous goods.
- ADR/RID class: Not dangerous goods.
- Maritime transport IMDG: Not dangerous goods.

Air transport ICAO-TI and IATA-DGR: Not dangerous goods.

• ICAO/IATA Class: Not dangerous goods.

# **Section 15: Regulatory Information (non-mandatory)**

# **US Federal Regulations**

**SARA Section 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA Section 304:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels as established by SARA Title III, Section 304.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): N/A

TSCA (Toxic Substances Control Act): N/A

## **Section 16: Other Information**

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Novilytic, LLC, and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

**SDS date of preparation/update:** 25 July 2025