

RepSox (E-616452) SDS | MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** RepSox (E-616452)
- **Catalog Number:** S7223
- **CAS Number:** 446859-33-2
- **IUPAC Name:** 1,5-Naphthyridine, 2-[3-(6-methyl-2-pyridinyl)-1H-pyrazol-4-yl]-

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

GHS Classification

In accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200), the product is classified as:

- Flammable powder: Category 4

Label Elements

- **Signal Word:** Warning
- **Hazard Statements:** H227 Combustible powder.
- **Precautionary Statements:**
 - **Prevention:** Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Wear protective gloves, eye protection, and face protection.
 - **Response:** In case of fire, use dry sand, dry chemical, or alcohol-resistant foam for extinction.
 - **Storage:** Store in a well-ventilated, cool place.
 - **Disposal:** Dispose of contents and container to an approved waste disposal plant.

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a mixture.

- **Component:** dimethyl sulphoxide
- **CAS No.:** 67-68-5
- **Concentration:** ≥ 90 - $\leq 100\%$ (Actual concentration is withheld as a trade secret).

No specific data provided for the product chemical structural formula in this section.

4. FIRST AID MEASURES

- **Inhalation:** Move to fresh air.
- **Skin Contact:** Take off contaminated clothing immediately. Rinse skin with water or shower.
- **Eye Contact:** Rinse with plenty of water. Remove contact lenses.
- **Ingestion:** Drink a maximum of two glasses of water. Consult a doctor if feeling unwell. Subsequently, administer activated charcoal (20 - 40 g in 10% slurry).
- **Most Important Symptoms/Effects:** Known symptoms and effects are described in Section 2.2 and/or Section 11.
- **Protection of First-Aiders:** Refer to Section 8 for personal protection.
- **Notes to Physician:** Laxative: Sodium sulfate (1 tablespoon per 1/4 liter of water).

5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water, foam, carbon dioxide (CO₂), or dry powder.
- **Unsuitable Extinguishing Media:** No limitations of extinguishing agents are given for this substance/mixture.
- **Specific Hazards:** The material is combustible. Vapors are heavier than air and may spread along floors. Intense heating may form explosive mixtures with air. Fire may cause the evolution of sulfur oxides, carbon oxides, and nitrogen oxides (NO_x).
- **Further Information:** Use water spray jet to suppress gases/vapors/mists. Prevent fire extinguishing water from entering surface or ground water systems. Cool containers with water from a safe distance.
- **Special Protective Equipment:** Wear self-contained breathing apparatus and suitable protective clothing to prevent skin contact.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Do not breathe vapors or aerosols. Keep away from heat and sources of ignition. Evacuate the danger area and consult an expert. For personal protection, see Section 8.
- **Environmental Precautions:** Do not allow the product to enter drains.

- **Methods for Containment and Cleaning Up:** Cover drains. Collect, bind, and pump off spills. Observe material restrictions. Take up with powder-absorbent material (e.g., Chemisorb®). Dispose of properly and clean the affected area.

7. HANDLING AND STORAGE

- **Precautions for Safe Handling:** Observe label precautions.
- **Advice on Protection Against Fire and Explosion:** Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharge.
- **Storage Conditions:** Keep tightly closed in a well-ventilated place.
- **Storage Class:** 10, Combustible powder.
- **Recommended Storage Temperature:** Refer to the product label for specific temperature requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Control Parameters

- **Dimethyl sulphoxide (CAS 67-68-5):** TWA 250 ppm (Basis: US WEEL).

Engineering Measures

N/A.

Personal Protective Equipment

- **Respiratory Protection:** Required when vapors/aerosols are generated. Recommended Filter type: Filter A (acc. to DIN 3181) for organic vapors.
- **Hand Protection:**
 - Full contact: Chloroprene gloves (0.65 mm thickness, >480 min breakthrough).
 - Splash contact: Latex gloves (0.6 mm thickness, >240 min breakthrough).
- **Eye Protection:** Safety glasses.
- **Skin and Body Protection:** Flame retardant antistatic protective clothing.
- **Hygiene Measures:** Change contaminated clothing. Wash hands after working with the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** powder
- **Color:** clear
- **Odor:** N/A
- **Odor Threshold:** N/A
- **pH:** N/A
- **Melting point:** N/A
- **Boiling point/boiling range:** N/A
- **Flash point:** 189 °F / 87 °C
- **Evaporation rate:** N/A

- **Flammability (solid, gas):** N/A
- **Flammability (powder):** N/A
- **Burning rate:** N/A
- **Self-ignition:** 572 - 576 °F / 300 - 302 °C at 1,013 hPa
- **Upper explosion limit:** 63.0 %(V)
- **Lower explosion limit:** 1.8 %(V)
- **Vapor pressure:** N/A
- **Relative vapor density:** N/A
- **Relative density:** N/A
- **Density:** N/A
- **Water solubility:** Miscible (77 °F / 25 °C)
- **Partition coefficient: n-octanol/water:** N/A
- **Autoignition temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A
- **Explosive properties:** Not classified as explosive.
- **Oxidizing properties:** None
- **Particle size:** N/A

10. STABILITY AND REACTIVITY

- **Reactivity:** Forms explosive mixtures with air on intense heating.
- **Chemical Stability:** The product is hygroscopic.
- **Possibility of Hazardous Reactions:** Risk of explosion with various substances including acetylidene, organic halides, perchlorates, acid chlorides, nitrates, hydrides, and strong oxidizing agents. Exothermic reactions occur with boron compounds, potassium, sodium, and strong acids. Risk of ignition with potassium permanganate.
- **Conditions to Avoid:** Strong heating.
- **Incompatible Materials:** Various plastics and metals.
- **Hazardous Decomposition Products:** In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

Mixture Information

- **Acute Toxicity:** N/A for oral, inhalation, or dermal routes.
- **Skin/Eye Irritation:** Possible slight irritation.
- **Carcinogenicity:** No ingredient present at levels $\geq 0.1\%$ is identified as a carcinogen by IARC, NTP, or OSHA.
- **Additional Information:** Possible symptoms after uptake include CNS disorders, nausea, tiredness, and headache. Possible damage to liver and kidneys. May accelerate skin absorption of other materials.

Component Information (Dimethyl sulphoxide)

- **LD50 Oral (Rat):** 28,300 mg/kg
- **LC0 Inhalation (Rat):** > 5.33 mg/l (4 h, dust/mist)
- **LD50 Dermal (Rat):** 40,000 mg/kg
- **Sensitization:** Negative in Guinea pig maximization test and Mouse LLNA.
- **Mutagenicity:** Negative in Ames test, sister chromatid exchange assay, and chromosome aberration tests.

12. ECOLOGICAL INFORMATION

Ecotoxicity

- **Product:** N/A.
- **Dimethyl sulphoxide:**
 - Toxicity to fish: LC50 (Danio rerio) > 25,000 mg/l (96 h).
 - Toxicity to daphnia: EC50 (Daphnia magna) 24,600 mg/l (48 h).
 - Toxicity to algae: ErC50 (green algae) 17,000 mg/l (72 h).
 - Toxicity to microorganisms: EC50 (activated sludge) 10 - 100 mg/l (30 min).

Persistence and Degradability

- **Biodegradability:** Dimethyl sulphoxide is not readily biodegradable (31% biodegradation after 28 days).
- **Stability in Water:** Hydrolyzes readily (half-life 0.12 - 1.2 h at 30 °C).

Bioaccumulative Potential

- **Dimethyl sulphoxide:** log Pow: -1.35. Bioaccumulation is not expected.

Mobility in Soil

N/A.

13. DISPOSAL CONSIDERATIONS

- **Waste from Residues:** Waste must be disposed of in accordance with national and local regulations. Leave chemicals in original containers and do not mix with other waste.
- **Contaminated Packaging:** Handle uncleaned containers in the same manner as the product itself.

14. TRANSPORT INFORMATION

International Regulations

- **IATA-DGR:** Not regulated as a dangerous good.
- **IMDG-Code:** Not regulated as a dangerous good.

National Regulation (49 CFR Road)

- **UN/ID/NA number:** NA 1993
- **Proper shipping name:** Combustible powder, n.o.s. (dimethyl sulphoxide)

- **Class:** CBL
- **Packing group:** III
- **Labels:** None
- **Marine pollutant:** No
- **Poison Inhalation Hazard:** No

15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/06/01

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.