

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Diisopropyl selenide**

CAS NO: 37773-02-7

FORMULA: C₆H₁₄Se

ACRONYM: DiPSe

Intended Use: For R&D use only.

MANUFACTURER:

WONIK MATERIALS NORTH AMERICA, LLC.
N115 W19392 EDISON DRIVE
GERMANTOWN, WI 53022 USA

PHONE: +1-262-293-0251
FAX: +1-262-253-1258

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: +1 703-741-5971

FOR TECHNICAL INFORMATION CONTACT: +1-262-293-0251

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION:

Flammable Liquid (Category 3)

Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 3)

Specific target organ toxicity- repeated exposure (Category 2)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Pictogram



Signal Word

Danger

SECTION 2 HAZARDS IDENTIFICATION (Cont.)**Hazard Statements**

H226	Flammable liquid and vapour
H301 + H331	Toxic if swallowed or inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

Precautionary Phrases

P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Take precautionary measures against static discharge
P301 + P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P310	Immediately call a POISON CENTER or doctor/physician
P314	Get medical advice/attention if you feel unwell
P330	Rinse mouth.
P370	In case of fire: Use water, foam, sand, carbon dioxide or powder for extinction
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

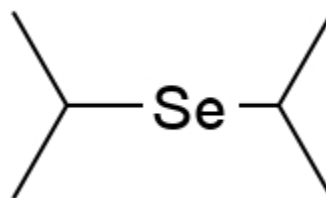
OTHER HAZARDS

None.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTSFormula: C₆H₁₄Se

Molecular Weight: 165.14 g/mol

Acronym: DiPSe



CHEMICAL NAME	CAS#	Assay
Diisopropyl selenide	37773-02-7	+ 99%

Diisopropyl selenide

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

SKIN EXPOSURE: Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. If not breathing, give artificial respiration. Seek medical attention.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

In case of fire: Use water spray, CO₂, sand, alcohol-resistant foam or dry chemical

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Carbon oxides, selenium oxides

ADVICE FOR FIRE FIGHTERS

Wear self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS

Contain the spillage. Do not let product enter drains. Discharge to the environment must be avoided.

METHODS AND MATERIALS

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

PERSONAL PRECAUTIONS

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

CONDITIONS FOR SAFE STORAGE

Keep container tightly closed. Store in dry, well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not allow temperatures to exceed 135°C. Store away from flammable material.

INCOMPATIBILITY: Strong oxidizing agents

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

APPROPRIATE ENGINEERING CONTROLS

Handle in accordance with good industrial hygiene and safety practice. Install local exhaust ventilation devices and management to ensure proper control. Handle and use in a well-ventilated area. Wash hands before breaks and immediately after handling.

EYE PROTECTION: Approved safety glasses w/side shields, or safety goggles and face shield

SKIN PROTECTION: Wear appropriate chemical resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves in accordance with applicable laws and good laboratory practices. Wash and dry hands.

RESPIRATOR: If adequate ventilation if not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34 or NIOSH/MSHA or European Standard EN 149 approved respirator.

ADDITIONAL PROTECTION: Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless liquid
FORMULA MASS: 165.14 g/mol
ODOR: Stench
ODOR THRESHOLD: No data available
pH: No data available
MELTING POINT/ FREEZING POINT: No data available
BOILING POINT: 135 deg C @ 760mm Hg (275 deg F)
FLASH POINT: No data available
EVAPORATION RATE: No data available
UPPER/LOWER EXPLOSION LIMIT: No data available
VAPOR PRESSURE: 13.1 mbar @ 25 °C (77 °F)
RELATIVE DENSITY: 1.2 g/mL @ 20 °C (68 °F)
SOLUBILITY IN WATER: insoluble
PARTITION COEFFICIENT: No data available
N-OCTANOL/WATER: No data available
AUTO-IGNITION TEMPERATURE: No data available
DECOMPOSITION: No data available
VISCOSITY: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable in sealed containers and stored under a dry inert atmosphere.
HAZARDOUS POLYMERIZATION: No data available
CONDITIONS TO AVOID: Heating above boiling point.
INCOMPATIBILITY: strong oxidizing agents, strong acids
DECOMPOSITION PRODUCTS: Carbon oxides, selenium oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available
SKIN CORROSION/IRRITATION: No data available
SERIOUS EYE DAMAGE/IRRITATION: No data available
RESPIRATORY OR SKIN SENSITIZATION: No data available
GERM CELL MUTAGENICITY: No data available
CARCINOGENICITY: No component of this product present at levels greater than or equal to 0.1% is identified as a known or possible carcinogen by IARC, ACGIH, NTP or OSHA.
REPRODUCTIVE TOXICITY: No data available
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE: No data available
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE: Long-term, chronic overexposure may affect the skin, eyes, respiratory system and the cardiovascular system.
ASPIRATION HAZARD: No data available
ADDITIONAL INFORMATION: To the best of our knowledge the chemical, physical, and toxicological properties of this substance are not fully known. Nausea, headache, vomiting. Stomach irregularities- based on human evidence.

SECTION 12 ECOLOGICAL DATA

TOXICITY: No data available
PERSISTENCE AND DEGRADABILITY: No data available
BIOACCUMULATIVE POTENTIAL: No data available
MOBILITY AND SOIL: No data available
PBT AND vPvB ASSESMENT: No data available
OTHER ADVERSE EFFECTS: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT AND CONTAMINATED PACKAGING: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Diisopropyl selenide

SECTION 14 TRANSPORTATION DATA

Proper shipping name: Toxic liquid, flammable, organic, n.o.s. (Diisopropyl selenide)

UN 2929 Class 6.1, (3) PG II

DOT, IATA, and IMDG Regulated

Marine Pollutant: YES

SECTION 15 REGULATORY INFORMATION

TSCA

CAS # 37773-02-7 is not listed on the TSCA inventory. It is for research and development use only.

SARA 302 COMPONENTS

None of the chemicals in this product are subject to the reporting requirements of Section 302 of SARA Title III

SARA 313 COMPONENTS

This material contains Diisopropyl selenide (CAS # 37773-02-7) which is subject to the reporting requirements of Section 313 of SARA Title III

STATE

CAS # 37773-02-7 can be found on the following state right to know lists: New Jersey, Pennsylvania

CALIFORNIA PROP 65

California No significant Risk Level: None of the chemicals in this product are listed.

SECTION 16 OTHER INFORMATION

OTHER INFORMATION:

CAS: Chemical Abstract Service

DOT: Department of Transportation

EPA: Environmental Protection Agency

IARC: International Agency for the Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

OSHA: Occupational Safety and Health Administration

SDS: Safety Data Sheet

TSCA: Toxic Substances Control Act

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Wonik Materials North America, LLC. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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SDS DEPT