

MATERIAL SAFETY DATA SHEET
poly(3,4-ethylenedioxythiophene)-
poly(styrenesulfonate) (PEDOT:PSS)



Product Details

Product Code: PEDOT -4083
Name: poly (3,4-ethylenedioxythiophene) -poly (styrenesulfonate) (PEDOT:PSS)
Supplied by: Ossila Limited, Kroto Innovation Centre
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Main Hazards

Defined as non-hazardous under European directive 67/548/EEC but substance not yet fully tested. As precautionary measure consider to be irritant to eyes, skin and respiratory system.

Ingredients

Ingredient	CAS #	Composition
Water	7732-18-5	94%
POLY (STYRENE SULFONATE) / POLY (2,3-DIHYDROTHIENO [3,4-B] -1,4-DIOXIN)	155090-83-8	6%

Handling and Storage

Handling

Directions for Safe Handling: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid ingestion.

Storage

Good industrial practice in housekeeping, and personal hygiene should be followed.

First Aid Measures

After Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration. If symptoms persist, call a doctor.

After Skin Contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a doctor.

After Eye Contact

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. Call a doctor.

After Ingestion

If swallowed, wash out mouth with water and drink plenty of water. Call a doctor.

Fire Fighting

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Use agent most appropriate to extinguish fire. In case of fire, use water spray, dry chemical, carbon dioxide, or appropriate foam.

Special Risks

Emits toxic fumes under incineration.

Explosion hazards:

Negligible.

Accidental Release Measures

Personal precaution procedures to be followed in case of leak or spill

Wear respirator, goggles, rubber boots and heavy rubber gloves.

Procedure(s) of personal precaution(s)

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Fill into labelled, sealable containers.

Physical and Chemical Properties

Appearance: Blue liquid

Odour: none reported

Boiling point: ~100°C

Melting point: not determined

Solubility in water: completely miscible

pH 1.5 – 2.5

Vapour pressure : 23.00 hPa at 20 °C

Density : approx. 1 g/cm³ at 20 °C

Stability and Reactivity

Stability: Stable.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide

Hazardous Polymerization: Will not occur

Exposure Controls / Personal Protection

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Eyes: wear chemical goggles. Risk of serious damage to eyes.

Skin: wear Glove material: Butyl-rubber, Viton. After contamination with product change the gloves immediately and remove them according to relevant national and local regulations.

Clothing: wear appropriate protective clothing to minimize contact with skin

Respirators: a respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements or European standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Signs and symptoms of exposure

Unknown

Disposal

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Transport

Non-hazardous for road, air and sea transport.

IATA: not regulated as a hazardous material

IMO: not regulated as a hazardous material

RID/ADR: not regulated as a hazardous material

Warranty

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