

Materials Safety Data Sheet ActivInk™ D2400
Generic EU MSDS

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: ActivInk™ D2400

General Use: In solution

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Section 2 - Hazards Identification

Emergency Overview: WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED OR INHALED. CAUSES SEVERE IRRITATION TO EYES. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

Carcinogenicity: Not established.

Medical Conditions Aggravated by Long-Term Exposure: Not established

Chronic Effects: No chronic health effects known.

WARNING: This substance has not yet been fully tested.

RESEARCH MATERIAL – FOR INVESTIGATIONAL USE ONLY.

Investigation of this substance is ongoing. Information is based upon preliminary data and analogy to known substances. Any adverse effects or new information should be reported to Polyera Corporation.

Section 3 - Composition / Information on Ingredients

Component	CAS No.	EC No.	Exposure Limits ACGIH TLV	Exposure Limits OSHA PEL	Weight Percent (%)
Confidential	N/A	N/A	None Established	None Established	100

Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim(s) to fresh air. If breathing has stopped give artificial respiration. Contact physician immediately.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Ingestion: Ingestion is unlikely route of exposure. Do not induce vomiting unless instructed by a physician. Rinse mouth with water and consult a physician.

RESEARCH MATERIAL – FOR INVESTIGATIONAL USE ONLY. After first aid, get appropriate in-plant, paramedic or community medical support.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: DO NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, apply water from as far as possible. Use very large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Unusual Fire or Explosion Hazards: Particulates, mist, or vapor from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapor from this product may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively.

Fire-Fighting Instructions: Wet material should be kept out of eyes and skin. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent) and full protection gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 - Accidental Release Measures

Personal Precautions: Avoid breathing particulates, vapors, or mist. Evacuate area until dust has been dispersed. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions: Do not let this product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Contain spillage, and then collect with noncombustible absorbent material and place in container for disposal according to local/national regulations.

Section 7 - Handling and Storage

Handling Precautions: Minimize breathing of dust, vapor, or mist, and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Do not use near ignition sources.

Storage Precautions: Store in cool dry, well-ventilated area away from all sources of ignition. “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: If user operators generate dust, fume, or mist, use ventilation.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an CEN/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! *Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipments.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Appearance

Form	Liquid
Color	Colorless

Safety Data

pH	N/A
Melting point	N/A
Boiling point	N/A
Vapor pressure	N/A
Specific Gravity	N/A
Vapor density (air=1)	N/A
Evaporation rate	N/A
Water solubility	Insoluble

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Materials to avoid: Strong oxidizing agents. Strong reducing agents. Strong base. Heat, flames and sparks.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce carbon monoxide and/or carbon dioxide.

Hazardous Polymerization: Hazardous polymerization cannot occur.

Section 11- Toxicological Information

None established

Section 12 - Ecological Information

None Established.

Section 13 - Disposal Considerations

Disposal: Follow applicable Federal, state, and local regulations. A qualified environmental professional should determine waste characterization, disposal, and treatment methods.

Section 14 - Transport Information

ADR/RID: UN number: 1993 Class: 3
Packing Group: III
Proper shipping name: FLAMMABLE LIQUID, N.O.S.

IMDG: UN number: 1993 Class: 3
Packing Group: III
EMS No.: F-E, S-D
Proper shipping name: FLAMMABLE LIQUID, N.O.S.

IATA: UN number: 1993 Class: 3
Packing Group: III
Proper shipping name: Flammable liquid, N.O.S.

Section 15 - Regulatory Information

Hazardous symbols

R phrases

R10	Flammable
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapors may cause drowsiness and dizziness

S phrases

S25	Avoid contact with eyes
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Section 16 - Other Information

DISCLAIMER. The Materials are experimental in nature, may have hazardous properties, and are provided “as is.” The information contained in this **Material Safety Data Sheet** is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of **Polyera Corporation**, it is the user’s obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.