MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product name: NXR-3032 Underlayer Resist
Supplier: Nanonex Corporation
1 Deer Park Drive, Suite O
Monmouth Junction, NJ 08852
Tel.: +1 732-355-1600 Fax.: +1 732-355-1608 web: http://www.nanonex.com
Revision date: 02/22/2011

2. COMPOSITION/ INFORMATION ON COMPONENTS

Proprietary, mixture of organic compounds and solvent.

3. HAZARDS IDENTIFICATION

Physical Hazards:
Flammable/combustible liquid

Acute Health Effects (Short-Term):
May causes skin and eye irritation. May cause allergic skin reaction. Inhalation of vapors in unventilated area may, over time, induce headaches.

Chronic Health Effects (Long-Term):
No data on the chronic health effects of this material is available.

4. FIRST AID MEASURES

Inhalation:
If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

Eye Contact:
In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.

Skin Contact:
Immediately remove contaminated clothing. Wash skin thoroughly with mild soap water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

Ingestion:
Seek immediate medical advice.

5. FIRE FIGHTING MEASURES

Recommended Extinguishing Media:
Carbon dioxide, dry chemical, wafer spray, foam, or wafer fog.

Special Firefighting Procedures:
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep fire exposed containers cool and reduce vapors with water spray.
Explosion limits in air:
   Upper:  13.1 vol.%
   Lower:  1.3 vol.%
Ignition temperature: 315 °C (599 °F)
Vapor pressure: 3.7 mmHg / 20 °C
Specific gravity: 0.97 / 20 °C
Solubility in water: slightly soluble

10. TOXICOLOGICAL INFORMATION

Acute Data:
   May causes skin and eye irritation. May cause allergic skin reaction. Inhalation of vapors in
   unventilated area may, over time, induce headaches.

Sub-chronic Data:
   Other than potential irritation as indicated above, no information on illness or injury to humans
   from acute or chronic exposure to this product is available.

11. DISPOSAL CONSIDERATION

   Contact a licensed professional waste disposal service to dispose of this material. Burn in a
   chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this
   material is highly flammable. Observe all federal, state, and local environmental regulations.

12. REGULATORY INFORMATION

EU DIRECTIVES CLASSIFICATION
   Symbol of Danger: Xi
   Indication of Danger: Irritant.
   R: 10-36
   Risk Statements: Flammable. Irritating to eyes.
   S: 25
   Safety Statements: Avoid contact with eyes.

US CLASSIFICATION AND LABEL TEXT
   Indication of Danger: Combustible (USA) Flammable (EU). Irritant.
   Risk Statements: May form explosive peroxides. Irritating to eyes.
   Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek
   medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION
   SARA LISTED: No
   TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION
   WHMIS Classification: This product has been classified in accordance with the hazard criteria of
   the CPR, and the MSDS contains all the information required by the CPR.
   DSL: Yes
   NDSL: No

13. TRANSPORTATION INFORMATION

   DOT:
   Proper Shipping Name: Flammable liquid, n.o.s. (1-methoxy-2-propyl acetate)