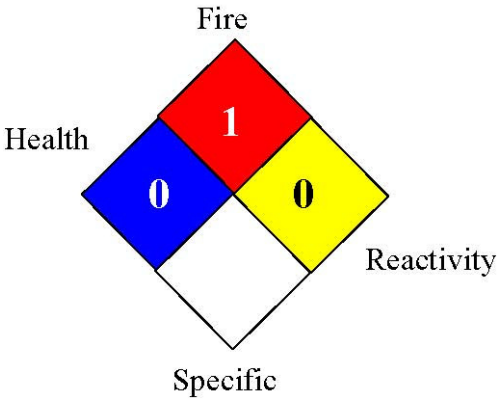
MSDS Document
Product R350

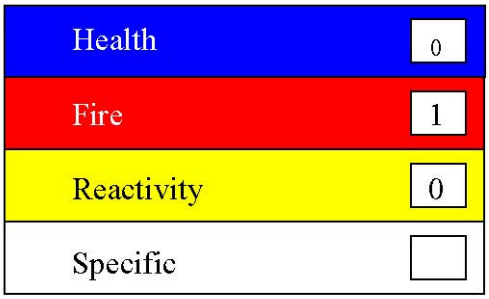
1. Chemical Product and Company Identification

Trade Name of this Product R350
Synonyms: Thermal Transfer Ribbon, TTR

MSDS ID MSDS00300
Distributor
DNP Imagingcomm America Corporation
1001 Technology Drive
Mount Pleasant, PA 15666-1766

Contact Name
EH&S Manager
Phone Number
(724) 696-7500
Emergency Phone
N/A
Revision Date 7-1-2014





2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %
Polyethylene Terephthalate	25038-59-9	68-72
Polyester Resin	Unpublished	< 4
Vinylchloride-Vinyl Acetate - Vinyl Alcoholcopolymer	25086-48-0	< 4
Epoxy resin	Unpublished	4-8
Ethylene-Vinyl Acetate Copolymer	24937-78-8	< 4
Polyethylene Wax	9002-78-8	4-8
Carnauba Wax	8015-86-9	< 4
Hydrogenated Tallow Aides	Unpublished	< 4

Calcium Carbonate	47-34-1	1-5
Silicone Resin	Unpublished	< 4
Carbon Black	1333-86-4	3-7

3. Hazard Identification

Emergency Overview
When used under normal conditions and as recommended, the product should not present a health hazard. This product, however, does contain carbon black as a pigment in the ink coating.

Hazardous Components
Carbon Black was classified as an IARC 2B (possible human) carcinogen in 1996. This classification was made due to results of inhalation testing. Dermal and oral testing did not yield evidence of tumors during these tests. When used under normal and recommended conditions, the carbon black in this application will not be air born and subject to inhalation. This product should therefore present a minimal health risk.

4. First Aid Information

Eye
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion
If material is swallowed, get immediate medical attention or advice. If choking, remove obstruction from passageway and seek immediate medical attention. DO NOT induce vomiting unless instructed to do so by medical personnel.

Inhalation
As supplied, product is a solid and would not in practice, be inhaled. However, inhalation hazards become more acute if exposure to airborne powder or dust is caused by excessive cutting or abrading. If difficulty in breathing or respiratory irritation occurs, move person to fresh air.

Skin
Not skin sensitive if used under normal conditions and as recommended.

5. Fire Fighting Measures

Autoignition Temperature
Over 200°C

Extinguishing media
Chemical Powder, Co_2 Gas, Water, Sand, and Others

Fire fighting instructions
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Sensitivity to Mechanical Impact (Y/N)
No

Sensitivity to Static Discharge
Sensitivity to static discharge is not expected.

6. Accidental Release Measures

Clean-up Procedure
Safely collect material and place in proper disposal container. Wash walking surface with detergent and water to reduce slipping hazard.

7. Handling and Storage

Handling
As supplied this product is inert. Protective clothing and breathing apparatus should be utilized if the product is handled during excessive cutting or abrading.

Storage
Store in original container in dry location at temperatures between 5°C (41°F) and 40°C (104°F).

8. Exposure Controls and Personal Protection

Carbon Black
OSHA TWA PEL = 3.5 mg/cu. meter ACGIH TWA TLV = 3.5 mg/cu. meter

9. Physical and Chemical Properties

Melting Point	Not Applicable
Boiling Point	Not Applicable
Vapor Pressure/Density	Not Applicable
Specific Gravity	Not Applicable
Liquid Density	Not Applicable
Solubility in Water	No Data Available
Appearance & Odor	Film with slight odor

10. Stability and Reactivity

Hazardous Polymerization
Will not occur

Reactivity
Carbon dioxide, carbon monoxide, organic acids, aldehydes and alcohols are hazardous products that could be produced through thermal decomposition or combustion.

Stability
Stable

11. Toxicological Information

No acute or chronic toxicological effects are expected.

12. Ecological Information

Chemical Fate Information
This product is not biodegradable.

Ecotoxicological Information
Aquatic toxicity is expected to be very low based on negligible water solubility of the film.

13. Disposal Considerations

As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.

14. Transportation Information

DOT Hazard Class:
Not regulated.

DOT Label(s)
None

DOT Shipping Name
None

Packing Group
None

Placards
None

UN/NA Number
None

15. Regulatory Information

SARA (311, 312) Hazard Class
None

SARA (313) Chemicals
None known

SARA Section 302
None found

WHIMS Hazard Class
Non-Controlled

16. Other Information

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.