

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date: 09/16/1999

Revision date: 09/16/1999

1 Identification of substance:

• **Product details:**

• **Trade name: TVP Ink Conditioner**

• **Article number:**

1300-966
2600-013
2600-251
2600-252
2600-914
2600-928

• **Manufacturer/Supplier:**

Diagraph Corporation
3401 Rider Trail South
Earth City, MD 63045
Phone: (314) 739-1221
Fax: (314) 770-5700

• **Information department:** Safety / Environmental

• **Emergency information:**

Contact Infotrac: (800) 535 5053 (US only)
International: +1 352 323 3500

2 Composition/Data on components:

• **Chemical characterization**

• **Description:**

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

112-34-5 diethylene glycol monobutyl ether	5-20 %
107-21-1 ethylene glycol	5-20 %

3 Hazards identification

• **Hazard description:** not applicable

• **Information pertaining to particular dangers for man and environment:**

• not applicable

• **Classification system**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- **NFPA Ratings (scale 0-4)**
Health = 1
Fire = 1
Reactivity = 0
- **HMS Rating (scale 0-4)**
Health - 1
Flammability - 1
Reactivity - 0
- **Routes of Entry** Ingestion
- **Target Organs** None known
- **Irritancy** None known
- **Sensitizing Capability** None known
- **Reproductive Effects** None known
- **Cancer Information** Not known to be carcinogenic.

4 First aid measures

- **General information** No special measures required.
- **After inhalation**
Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact**
Rinse opened eye for several minutes under running water.
- **After swallowing**
Induce vomiting, if person is conscious. Seek medical help.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**

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- **Information for safe handling:**
No special measures required.
No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Maximum storage temperature:** 120 F (49 C)
- **Minimum storage temperature:** 35 F (2 C)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

107-21-1 ethylene glycol
ACGIH TLV: C 100, A4* mg/m³
*Aerosol

- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves.
- **Eye protection:** Safety glasses

9 Physical and chemical properties:

- **Form:** Liquid
- **Color:** Clear
- **Odor:** Weak, characteristic

• **Change in condition**

- **Melting point/Melting range:**
- **Boiling point/Boiling range:**

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
	undetermined		
		100 ° C	
		98 ° C	
		225 ° C	

• **Flash point:**• **Ignition temperature:**• **Auto igniting:**

Product is not selfigniting.

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- **Danger of explosion:**
Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** 0.9 Vol %
- **Upper:** 53.0 Vol %
- **Vapor pressure:** at 20 ° C 23 hPa
- **Density:** at 20 ° C 1.006 g/cm³
- **Solubility in / Miscibility with**
- **Water:** Fully miscible
- **Solvent content:**
- **Organic solvents:** 10.0 %
- **Water:** 80.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:**
No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system
Comply with all Federal, State, and Local regulations regarding disposal.
- **Uncleaned packagings:**
- **Recommendation:**
Comply with all Federal, State, and Local regulations regarding disposal.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:** Non-regulated Material
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

- **Product related hazard information:**
Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations according to directives on hazardous materials.
- **Safety phrases:**
Keep out of the reach of children.
Do not empty into drains.
- **National regulations**
- **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

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- **OSHA Regulations**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
OSHA Specifically Regulated Substance (29 CFR 1910.): Not listed

- **Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313:**

112-34-5 diethylene glycol monobutyl ether
107-21-1 ethylene glycol

- **CONEG:**

This product has not been tested for heavy metals covered under the various CONEG laws. However, raw materials used to make this product do not contain mercury, lead, cadmium, or hexavalent chromium and none are added during manufacture.

- **Toxic Substances Control Act TSCA Status:**

All components of this product are listed in the EPA's Inventory of Chemical Substances as required under the Toxic Substances Control Act (TSCA).

California Proposition 65 (Chemicals known to cause cancer):

This product contains no ingredients on the California Proposition 65 List known to cause cancer.

- **California Proposition 65 (Chemicals known to cause reproductive toxicity):**

This product contains no ingredients on the California Proposition 65 List known to cause reproductive toxicity.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Chemistry
- **MSDS Created By:** Kendall Kessler

USA