



# SAFETY DATA SHEET

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1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product code** 8493004T  
**Product name** 849300 Black  
**Product category** Avery Dennison 4930 Series Screen Ink

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Printing operations

### 1.3 Details of the supplier of the safety data sheet

#### UNITED STATES

Nazdar Company  
 8501 Hedge Lane Terrace  
 Shawnee, KS 66227  
 Tel: 1-913-422-1888  
 Tel: 1-800-677-4657  
 Fax: 1-913-422-2294

Manufactured exclusively for Avery Dennison

#### UNITED KINGDOM

Nazdar Limited  
 7 Barton Road  
 Heaton Mersey Industrial Estate  
 Stockport, Cheshire SK4 3EG  
 Tel: +44 161 442 2111

### For further information, please contact

**Contact person** Regulatory Compliance: Tel: 1-913-422-1888 (ext 2305)  
**E-mail address** regcomp@nazdar.com

### 1.4 Emergency telephone number

**Emergency Telephone Number** USA: Chemtrec: 1-800-424-9300 (24 hours)  
 Outside USA: Chemtrec: 1-703-527-3887 (24 hours)

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### According to Regulation (EC) No 1272/2008

|                                  |            |
|----------------------------------|------------|
| Acute oral toxicity              | Category 4 |
| Acute dermal toxicity            | Category 4 |
| Acute Toxicity - Vapours         | Category 4 |
| Acute Toxicity - Dusts and Mists | Category 4 |
| Chronic aquatic toxicity         | Category 3 |

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

**Symbol(s)** Xn - Harmful  
**R-code(s)** Xn;R20/21 - Xi;R36

### 2.2 Label elements

**Signal Word****Warning****Hazard Statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear protective gloves/ protective clothing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P273 - Avoid release to the environment

**2.3 Other Hazards**

No information available

|  |
|--|
| <b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b> |
|--|

| Component                               | EC No.                 | CAS-No    | Weight % | Classification     | GHS Classification                         | REACH No.         |
|---|------------------------|-----------|----------|--------------------|--|-------------------|
| Ethylene glycol monobutyl ether acetate | 203-933-3              | 112-07-2  | 30 - 40  | Xn; R20/21         | Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332) | No data available |
| Gamma Butyrolactone                     | 202-509-5              | 96-48-0   | 20 - 30  | Xn; R22<br>Xi; R36 |  | No data available |
| Carbon black                            | 215-609-9<br>435-640-3 | 1333-86-4 | 1 - 5    | -                  |  | No data available |

For the full text of the R-phrases mentioned in this Section, see Section 16

|                              |
|------------------------------|
| <b>4. FIRST AID MEASURES</b> |
|------------------------------|

**4.1 Description of first-aid measures****General Advice**

Show this safety data sheet to the doctor in attendance

**Eye Contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

**Skin Contact**

Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

**Inhalation**

If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

**Ingestion**

If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

None under normal use conditions

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

Treat symptomatically

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable Extinguishing Media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which shall not be used for safety reasons**

No information available

**5.2 Special hazards arising from the substance or mixture**

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**  
None reasonably foreseeable

**Special protective equipment for fire-fighters**

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

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools.

**6.4 Reference to other sections**

See Section 12 for additional information.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling****Handling**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Do not take internally. Harmful or fatal if swallowed. Take notice of the directions of use on the label.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice

**7.2 Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition.

**7.3 Specific end uses****Exposure Scenario**

No information available

**Other Guidelines**

No information available

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters**

**Exposure limits**

| Component                               | European Union | The United Kingdom   | France   | Spain  | Germany  |
|---|----------------|--|--|--|--|
| Ethylene glycol monobutyl ether acetate |                | STEL: 50 ppm<br>STEL: 332 mg/m <sup>3</sup><br>TWA: 20 ppm<br>TWA: 133 mg/m <sup>3</sup><br>Skin | TWA/VME: 2 ppm (indicative limit)<br>TWA/VME: 13.3 mg/m <sup>3</sup> (indicative limit)<br>STEL/VLCT: 30 ppm (indicative limit)<br>STEL/VLCT: 199.8 mg/m <sup>3</sup> (indicative limit)<br>Skin | STEL/VLA-EC: 50 ppm<br>STEL/VLA-EC: 333 mg/m <sup>3</sup><br>TWA/VLA-ED: 20 ppm<br>TWA/VLA-ED: 133 mg/m <sup>3</sup><br>Skin | TWA/MAK: 10 ppm<br>TWA/MAK: 66 mg/m <sup>3</sup><br>Peak: 20 ppm<br>Peak: 132 mg/m <sup>3</sup><br>TWA/AGW: 20 ppm<br>TWA/AGW: 130 mg/m <sup>3</sup><br>Skin |
| Carbon black                            |                | STEL: 7 mg/m <sup>3</sup><br>TWA: 3.5 mg/m <sup>3</sup>  | TWA/VME: 3.5 mg/m <sup>3</sup>   | TWA/VLA-ED: 3.5 mg/m <sup>3</sup>  |  |

| Component                               | Italy  | Portugal                          | The Netherlands   | Finland  | Denmark   |
|---|--|-----------------------------------|---|--|---|
| Ethylene glycol monobutyl ether acetate | TWA: 20 ppm<br>TWA: 133 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 333 mg/m <sup>3</sup><br>Skin | TWA/VLE-MP: 20 ppm                | STEL: 333 mg/m <sup>3</sup><br>TWA: 135 mg/m <sup>3</sup><br>Skin | TWA: 20 ppm<br>TWA: 130 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 330 mg/m <sup>3</sup><br>Skin | TWA: 20 ppm<br>TWA: 130 mg/m <sup>3</sup><br>Skin |
| Carbon black                            |  | TWA/VLE-MP: 3.5 mg/m <sup>3</sup> |   | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>  | TWA: 3.5 mg/m <sup>3</sup>                        |

| Component                               | Austria  | Switzerland   | Poland   | Norway   | Ireland  |
|---|--|---|--|--|--|
| Ethylene glycol monobutyl ether acetate | STEL/KZW: 40 ppm<br>STEL/KZW: 270 mg/m <sup>3</sup><br>TWA/TMW: 20 ppm<br>TWA/TMW: 133 mg/m <sup>3</sup><br>Skin | STEL/KZW: 20 ppm<br>STEL/KZW: 132 mg/m <sup>3</sup><br>TWA/MAK: 10 ppm<br>TWA/MAK: 66 mg/m <sup>3</sup><br>Skin | NDSch: 300 mg/m <sup>3</sup><br>TWA/NDS: 100 mg/m <sup>3</sup><br>Skin | TWA: 10 ppm<br>TWA: 65 mg/m <sup>3</sup><br>Skin | TWA: 20 ppm<br>TWA: 133 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 333 mg/m <sup>3</sup><br>Skin |
| Carbon black                            |  |   | TWA/NDS: 4.0 mg/m <sup>3</sup> (total inhalable dust)                  | TWA: 3.5 mg/m <sup>3</sup>                       | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>  |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2 Exposure controls****Engineering Measures**

Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.

**Personal protective equipment****Eye Protection**

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

**Skin Protection**

Wear protective gloves/clothing. Solvent-resistant apron and boots.

**Hand Protection**

Nitrile rubber. Neoprene gloves.

**Respiratory Protection**

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter.

**Environmental exposure controls** No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

|                       |                |                       |                          |
|-----------------------|----------------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid         | <b>Appearance</b>     | Colored, liquid          |
| <b>Odor</b>           | Characteristic | <b>Odor Threshold</b> | No information available |
| <b>pH</b>             |                |                       | No data available        |

|   |                               |
|---|-------------------------------|
| <b>Melting Point/Range</b>                    | No data available             |
| <b>Freezing Point/Range</b>                   | No data available             |
| <b>Boiling point/Boiling Range</b>            | >149 °C / >300 °F             |
| <b>Flash Point</b>                            | 71 °C / 160 °F Tag closed cup |
| <b>Evaporation rate</b>                       | No data available             |
| <b>Flammability (solid, gas)</b>              | No data available             |
| <b>Flammability Limits in Air</b>             |                               |
| <b>Upper</b>                                  | No data available             |
| <b>Lower</b>                                  | No data available             |
| <b>Vapour Pressure</b>                        | No data available             |
| <b>Vapour Density</b>                         | Heavier than air              |
| <b>Relative density</b>                       | No data available             |
| <b>Solubility</b>                             | No data available             |
| <b>Partition coefficient: n-octanol/water</b> | No data available             |
| <b>Autoignition Temperature</b>               | No data available             |
| <b>Decomposition temperature</b>              | No data available             |
| <b>Viscosity</b>                              | No data available             |
| <b>Explosive Properties</b>                   | No information available      |
| <b>Oxidizing Properties</b>                   | No information available      |

**9.2 Other information**

**Specific Gravity** 1.05

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

No data available

**10.2 Chemical Stability**

Stable under normal conditions

**10.3 Possibility of Hazardous Reactions**

None under normal processing.

**10.4 Conditions to avoid**

Heat, flames and sparks.

**10.5 Incompatible Materials**

Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

**10.6 Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects****Acute Toxicity**

| Component                               | LD50 Oral            | LD50 Dermal           | LC50 Inhalation        |
|---|----------------------|-----------------------|------------------------|
| Ethylene glycol monobutyl ether acetate | 1600 mg/kg ( Rat )   | 1480 mg/kg ( Rabbit ) |                        |
| Gamma Butyrolactone                     | 1540 mg/kg ( Rat )   |                       | >2.68 mg/L ( Rat ) 4 h |
| Carbon black                            | >15400 mg/kg ( Rat ) | >3 g/kg ( Rabbit )    |                        |

**Irritation**  
**Corrosivity**

No information available  
No information available

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Sensitisation</b>            | No information available |
| <b>Mutagenic Effects</b>        | No information available |
| <b>Carcinogenic effects</b>     | No information available |
| <b>Reproductive Effects</b>     | No information available |
| <b>Developmental hazard</b>     | No information available |
| <b>STOT - single exposure</b>   | No information available |
| <b>STOT - repeated exposure</b> | No information available |
| <b>Aspiration Hazard</b>        | No information available |

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

We have no quantitative data concerning the ecological effects of this product. Environmental fate information is derived from consideration of the properties of the ingredients.

| Component                               | Algae   | Fish   | Water Flea                                      |
|---|---|--|---|
| Ethylene glycol monobutyl ether acetate | 72h EC50 <i>Desmodesmus subspicatus</i> : >500 mg/L   |  |   |
| Gamma Butyrolactone                     | 72h EC50 <i>Desmodesmus subspicatus</i> : 360 mg/L<br>96h EC50 <i>Desmodesmus subspicatus</i> : 79 mg/L | 96h LC50 <i>Leuciscus idus</i> : 220 - 460 mg/L [static] | 48h EC50 <i>Daphnia magna</i> Straus: >500 mg/L |
| Carbon black                            |   |  | 24h EC50 <i>Daphnia magna</i> : >5600 mg/L      |

### 12.2 Persistence and degradability

No information available

### 12.3 Bioaccumulative potential

| Component                               | log Pow |
|---|---------|
| Ethylene glycol monobutyl ether acetate | 1.51    |
| Gamma Butyrolactone                     | -0.566  |

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

No information available

### 12.6 Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

|  |  |
|--|--|
| <b>Waste from Residues / Unused Products</b> | Dispose of in accordance with local regulations  |
| <b>Contaminated Packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. |

## 14. TRANSPORT INFORMATION

**IMDG/IMO**

Not classified as dangerous in the meaning of transport regulations

**RID**

Not classified as dangerous in the meaning of transport regulations

**ADR**

Not classified as dangerous in the meaning of transport regulations

**ICAO**

Not classified as dangerous in the meaning of transport regulations

**IATA**

Not classified as dangerous in the meaning of transport regulations

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

**Regulation (EC) No. 1907/2006 (REACH), Article 57**

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)

**15.2 Chemical Safety Assessment**

This information is not available

**16. OTHER INFORMATION****Text of R phrases mentioned in Section 3**

R36 - Irritating to eyes

R22 - Harmful if swallowed

R20/21 - Harmful by inhalation and in contact with skin

**Full text of H-Statements referred to under sections 2 and 3**

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date**

May-09-2012

**Revision Note**

New MSDS format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**