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2.5

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Product code** 8493254T  
**Product name** 849325 Overprint Clear  
**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	UNITED KINGDOM
Nazdar Company	Nazdar Limited
8501 Hedge Lane Terrace	Barton Road
Shawnee, KS 66227	Heaton Mersey
Tel: +001-913-422-1888	Stockport, England SK4 3EG
Tel: +001-800-677-4657	Tel: +44 161 442 2111
Fax: +001-913-422-2294	
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**For further information, please contact**

**Contact person** Regulatory Compliance: Tel: +001-913-422-1888 (ext 2305)  
**E-mail address** regcomp@nazdar.com

**1.4 Emergency telephone number**

USA: Chemtrec: +001-800-424-9300  
Outside USA: Chemtrec: +001-703-527-3887  
24 Hour Emergency Phone Number

**Section 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 3 - (H412)

**2.2 Label elements**



**Signal Word**  
Danger

**Hazard Statements**

H318 - Causes serious eye damage  
 H332 - Harmful if inhaled  
 H336 - May cause drowsiness or dizziness  
 H412 - Harmful to aquatic life with long lasting effects  
 EUH208 - May produce an allergic reaction

### Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P273 - Avoid release to the environment  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

### 2.3 Other Hazards

<b>Other Hazards</b>	Harmful to aquatic life.
<b>General Hazards</b>	No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Component	EC No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.	Note
Ethylene glycol monobutyl ether acetate	203-933-3	112-07-2	30 - 60	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	01-2119475112-47-xxxx	1
Butyrolactone	202-509-5	96-48-0	10 - 30	Acute Tox. 4 (H302) Eye Dam. 1 (H318) STOT SE 3 (H336)	01-2119471839-21-xxxx	1
Acrylic polymer	-	TRADE SECRET	< 1	Acute Tox. 4 (H302) Skin Sens. 1 (H317)	No data available	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	255-437-1	41556-26-7	< 0.5	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available	

Note

REACH No: Registration number(s) may not be provided because substance(s) are exempted or not yet required to be registered under REACH  
 1. Substance with a Community workplace exposure limit

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center 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

<b>Notes to Physician</b>	Treat symptomatically.
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## Section 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.

**Unsuitable Extinguishing Media**

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

**5.3 Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

## Section 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. 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. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

**6.4 Reference to other sections**

See Section 12 for more information.

## Section 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

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

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

**7.3 Specific end use(s)**

**Exposure scenario** No information available.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters****Exposure limits**

Component	The United Kingdom
Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 50 ppm STEL: 332 mg/m <sup>3</sup> TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> Skin
Component	France

Ethylene glycol monobutyl ether acetate 112-07-2	TWA/VME: 10 ppm indicative limit TWA/VME: 66.5 mg/m <sup>3</sup> indicative limit STEL/VLCT: 50 ppm restrictive limit STEL/VLCT: 333 mg/m <sup>3</sup> restrictive limit Skin
<b>Component</b>	<b>Germany</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/MAK: 10 ppm TWA/MAK: 66 mg/m <sup>3</sup> TWA/AGW: 10 ppm TWA/AGW: 65 mg/m <sup>3</sup> Peak: 20 ppm Peak: 132 mg/m <sup>3</sup> Skin
Butyrolactone 96-48-0	Skin
<b>Component</b>	<b>Spain</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/VLA-ED: 20 ppm TWA/VLA-ED: 133 mg/m <sup>3</sup> STEL/VLA-EC: 50 ppm STEL/VLA-EC: 333 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Italy</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Portugal</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/VLE-MP: 20 ppm TWA/VLE-MP: 133 mg/m <sup>3</sup> STEL/VLE-CD: 50 ppm STEL/VLE-CD: 333 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>The Netherlands</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 135 mg/m <sup>3</sup> STEL: 333 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Finland</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 130 mg/m <sup>3</sup> STEL: 50 ppm STEL: 330 mg/m <sup>3</sup> Skin
Butyrolactone 96-48-0	TWA: 50 ppm TWA: 14 mg/m <sup>3</sup> STEL: 250 ppm STEL: 70 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Denmark</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 134 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Austria</b>
Ethylene glycol monobutyl ether acetate 112-07-2	STEL/KZW: 40 ppm STEL/KZW: 270 mg/m <sup>3</sup> TWA/TMW: 20 ppm TWA/TMW: 133 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Switzerland</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 66 mg/m <sup>3</sup> aerosol, vapour STEL/KZW: 20 ppm aerosol, vapour STEL/KZW: 132 mg/m <sup>3</sup> aerosol, vapour Skin
<b>Component</b>	<b>Poland</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA/NDS: 100 mg/m <sup>3</sup> STEL/NDSch : 300 mg/m <sup>3</sup>
<b>Component</b>	<b>Norway</b>
Ethylene glycol monobutyl ether acetate	TWA: 10 ppm

112-07-2	TWA: 65 mg/m <sup>3</sup> Skin
<b>Component</b>	<b>Ireland</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> Skin

<b>Component</b>	<b>Australia TWA</b>
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup>
<b>Component</b>	<b>Australia STEL</b>
Ethylene glycol monobutyl ether acetate 112-07-2	STEL: 50 ppm STEL: 333 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**

Component	DNEL - Dermal (Workers)	DNEL - Inhalation (Workers)
Ethylene glycol monobutyl ether acetate 112-07-2	169 mg/kg (Systemic long term) 120 mg/kg (Systemic acute/short term)	133 mg/m <sup>3</sup> (Systemic long term) 333 mg/m <sup>3</sup> (Local acute/short term)
Butyrolactone 96-48-0	19 mg/kg (Systemic long term)	130 mg/m <sup>3</sup> (Systemic long term) 958 mg/m <sup>3</sup> (Systemic acute/short term)

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

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

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

**Personal protective equipment****Eye/Face Protection**

Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye Protection**

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

**Skin Protection**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Hand Protection**

Chemical resistant protective gloves.  
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other  
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.  
Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental exposure controls** No information available.

## Section 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><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH		No data available	
Melting Point / Freezing Point		No data available	
Boiling Point / Boiling Range	> 149 °C / 300 °F		
Flash Point	71 °C / 160 °F	Tag closed cup	
Evaporation rate		No data available	
Flammability Limit in Air			
Upper flammability limit		No data available	
Lower flammability limit		No data available	
Vapor Pressure		No data available	
Vapor Density		No data available	
Specific Gravity	1.04		
Water Solubility		No data available	
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/water		No data available	
Autoignition Temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	
Explosive Properties	No data available		
Oxidizing Properties	No data available		

### 9.2 Other information

**Softening Point** No data available

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

None under normal processing.

### 10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

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

## Section 11: TOXICOLOGICAL INFORMATION

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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Harmful if inhaled. (based on components).
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	2,010.00 mg/kg
<b>ATEmix (dermal)</b>	4,019.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	4.00 mg/L
<b>ATEmix (inhalation-vapor)</b>	29.00 mg/L

**Unknown Acute Toxicity**

- 0 % of the mixture consists of ingredient(s) of unknown toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50
Ethylene glycol monobutyl ether acetate 112-07-2	= 2400 mg/kg ( Rat )
Butyrolactone 96-48-0	= 1540 mg/kg ( Rat )
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7	= 2615 mg/kg ( Rat )

Component	Dermal LD50
Ethylene glycol monobutyl ether acetate 112-07-2	= 1500 mg/kg ( Rabbit )

Component	Inhalation LC50
Ethylene glycol monobutyl ether acetate 112-07-2	> 400 ppm ( Rat ) 4 h
Butyrolactone 96-48-0	> 5100 mg/m <sup>3</sup> ( Rat ) 4 h

<b>Skin corrosion/irritation</b>	Specific test data for the substance or mixture is not available.
<b>Eye damage/irritation</b>	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).
<b>Sensitization</b>	Specific test data for the substance or mixture is not available.
<b>Mutagenic Effects</b>	Specific test data for the substance or mixture is not available.
<b>Carcinogenic effects</b>	Specific test data for the substance or mixture is not available.
<b>Reproductive Effects</b>	Specific test data for the substance or mixture is not available.
<b>STOT - single exposure</b>	Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness. (based on components).
<b>STOT - repeated exposure</b>	Specific test data for the substance or mixture is not available.
<b>Aspiration hazard</b>	Specific test data for the substance or mixture is not available.

## Section 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on

components).

### Unknown Aquatic Toxicity

0.5 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Ethylene glycol monobutyl ether acetate 112-07-2	72h EC50 Desmodesmus subspicatus: > 500 mg/L
Butyrolactone 96-48-0	96h EC50 Desmodesmus subspicatus: = 79 mg/L 72h EC50 Desmodesmus subspicatus: = 360 mg/L

Component	Fish
Ethylene glycol monobutyl ether acetate 112-07-2	96h LC50 Oncorhynchus mykiss: 20 - 40 mg/L
Butyrolactone 96-48-0	96h LC50 Lepomis macrochirus: = 56 mg/L [static]
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7	96h LC50 Lepomis macrochirus: = 0.97 mg/L (static)

Component	Crustacea
Ethylene glycol monobutyl ether acetate 112-07-2	48h EC50 Daphnia magna: = 37 mg/L
Butyrolactone 96-48-0	48h EC50 Daphnia magna Straus: > 500 mg/L

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

Component	Partition coefficient
Ethylene glycol monobutyl ether acetate 112-07-2	1.51
Butyrolactone 96-48-0	-0.566
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7	0.37

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects.

No information available.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Waste from residues/unused products

Contain and dispose of waste according to local regulations.

#### Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14: TRANSPORT INFORMATION

#### Note:

This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation



information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**ADR**  
14.2 **Proper Shipping Name** Not Regulated  
Printing Ink

**ICAO / IATA / IMDG / IMO**  
14.2 **Proper Shipping Name** Not Regulated  
Printing Ink

## Section 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

*European Union*

#### **International Inventories**

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

#### **15.2 Chemical Safety Assessment**

No information available.

## Section 16: OTHER INFORMATION

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

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

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### **Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)  
STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value

**Revision Date** Sep-20-2019

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **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**