

# Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Printing date 06/19/2020

Version: 1.0

Reviewed on 06/19/2020

## 1 Identification

### Product identifier

**Product name:** TJ Pro Flush**Article number:** 999500**CAS Number:**

34590-94-8

**EC number:**

252-104-2

**Application of the substance / the mixture:** Printing Ink Flush

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

Avery Dennison Digital Ink Solutions

250 Chester Street, Building 7

Painesville, OH 44077 - USA

1-877-214-0909

**Information department:** reflective.product.compliance@averydennison.com**Emergency telephone number:** CHEMTREC International +1 (703) 527-3887 24 hr

## 2 Hazard(s) identification

### Classification of the substance or mixture

Flam. Liq. 4 H227 Combustible liquid.

### Label elements

**GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms** Void**Signal word** Warning**Hazard statements**

Combustible liquid.

**Precautionary statements**

Keep away from flames and hot surfaces. – No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3 Composition/information on ingredients

### Chemical characterization: Substances

**CAS No. Description**

34590-94-8 Dipropylene glycol monomethyl ether

**Identification number(s)****EC number:** 252-104-2

## 4 First-aid measures

### Description of first aid measures

**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:** If symptoms persist consult doctor.

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**Product name: TJ Pro Flush**

**Most important symptoms and effects, both acute and delayed** No further relevant information available.  
**Indication of any immediate medical attention and special treatment needed**  
 No further relevant information available.

## 5 Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture** No further relevant information available.

### Advice for firefighters

**Protective equipment:** No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

### Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### Handling:

**Precautions for safe handling** No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:** No special measures required.

### Conditions for safe storage, including any incompatibilities

#### 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.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

### Control parameters

**Components with limit values that require monitoring at the workplace:**

#### 34590-94-8 Dipropylene glycol monomethyl ether

PEL Long-term value: 600 mg/m<sup>3</sup>, 100 ppm  
 Skin

REL Short-term value: 900 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 600 mg/m<sup>3</sup>, 100 ppm  
 Skin

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TLV Short-term value: 909 mg/m<sup>3</sup>, 150 ppm

Long-term value: 606 mg/m<sup>3</sup>, 100 ppm

Skin

**Additional information:** The lists that were valid during the creation were used as basis.

## Exposure controls

### Personal protective equipment:

**General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**Breathing equipment:** Not required.

### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Ether-like
<b>Odor threshold:</b>	Not determined.

**pH-value:** Not determined.

#### Change in condition

**Melting point/Melting range:** -83 °C (-117.4 °F)

**Boiling point/Boiling range:** 190 °C (374 °F)

**Flash point:** 75 °C (167 °F)

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** 270 °C (518 °F)

**Decomposition temperature:** Not determined.

**Auto igniting:** Not determined.

**Danger of explosion:** Not determined.

#### Explosion limits:

**Lower:** 1.1 Vol %

**Upper:** 14 Vol %

**Vapor pressure at 20 °C (68 °F):** 0.4 hPa (0.3 mm Hg)

**Density at 20 °C (68 °F):** 0.956 g/cm<sup>3</sup> (7.97782 lbs/gal)

**Relative density:** Not determined.

**Vapor density:** Not determined.

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<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Fully miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	4.55 mPas
<b>Kinematic at 20 °C (68 °F):</b>	4.55 mm <sup>2</sup> /s
<b>Solids content:</b>	0.0 %
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**34590-94-8 Dipropylene glycol monomethyl ether**

Oral LD50 5,135 mg/kg (rat)

Dermal LD50 > 19,000 mg/kg (rab)

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

Substance is not listed.

**NTP (National Toxicology Program)**

Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

## 12 Ecological information

**Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

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## Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

## Additional ecological information:

### General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## \*14 Transport information

### UN-Number

**DOT**

UN1993

**ADN, IMDG, IATA**

not regulated

### UN proper shipping name

**DOT**

Flammable liquids, n.o.s. (Dipropylene glycol monomethyl ether)

**ADN, IMDG, IATA**

not regulated

### Transport hazard class(es)

**DOT**



**Class**

3 Flammable liquids

**Label**

3

**ADN/R Class:**

not regulated

### Packing group

**DOT**

III

**IMDG, IATA**

not regulated

### Environmental hazards:

Not applicable.

### Special precautions for user

Not applicable.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### Transport/Additional information:

DOT Exception: Per 49 CFR 173.150(f)(2), the requirements of the US DOT Hazardous Materials Regulations (49 CFR Parts 170-180) do not apply to a combustible liquid (having a flashpoint above 140oF - 200oF) in non-bulk packaging (less than 119 gallons). DOT Interpretation Letter: Ref. No. 14-0020.

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## DOT

### Quantity limitations

On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

### UN "Model Regulation":

not regulated

## 15 Regulatory information

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

#### SARA

##### Section 355 (extremely hazardous substances):

Substance is not listed.

##### Section 313 (Specific toxic chemical listings):

Substance is not listed.

#### TSCA (Toxic Substances Control Act):

: ACTIVE

#### Hazardous Air Pollutants

Substance is not listed.

#### Proposition 65

##### Chemicals known to cause cancer:

Substance is not listed.

##### Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

##### Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

##### Chemicals known to cause developmental toxicity:

Substance is not listed.

#### Carcinogenic categories

##### EPA (Environmental Protection Agency)

Substance is not listed.

##### TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

##### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

**GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms** Void

**Signal word** Warning

#### Hazard statements

Combustible liquid.

#### Precautionary statements

Keep away from flames and hot surfaces. – No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 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.

### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 4: Flammable liquids – Category 4

\* **Data compared to the previous version altered.**