

**Safety data sheet**

According to the UN Global Harmonized System (Rev. 4)

Printing date 16.06.2020

Version number 1.0

Revision: 16.06.2020

**1 Identification of the substance/mixture and of the company/undertaking****Product identifier****Trade name:** TJ Pro Flush**Article number:** 999500**CAS Number:**

34590-94-8

**EC number:**

252-104-2

**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**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

**Manufacturer/Supplier:**

Avery Dennison

250 Chester Street

Painesville, OH 44077

USA

**Further information obtainable from:** [reflective.product.compliance@averydennison.com](mailto:reflective.product.compliance@averydennison.com)**Emergency telephone number:** CHEMTREC International +1 (703) 527-3887 24 hr**2 Hazards identification****Classification of the substance or mixture**

Flam. Liq. 4 H227 Combustible liquid.

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

Combustible liquid.

**Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from flames and hot surfaces. No smoking.

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

In case of fire: Use to extinguish: 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 characterisation: Substances****CAS No. Description**

34590-94-8 Dipropylene glycol monomethyl ether

(Contd. on page 2)

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(Contd. of page 1)

**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.**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 Firefighting measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, 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 fire - and explosion protection:** 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.

— AE —

(Contd. on page 3)

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(Contd. of page 2)

**8 Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Control parameters****Ingredients with limit values that require monitoring at the workplace:****34590-94-8 Dipropylene glycol monomethyl ether**

PEL (USA)	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL (USA)	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV (USA)	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin
IOELV (EU)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Skin
WEL (Great Britain)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Sk

**Additional information:** The lists valid during the making were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:** Wash hands before breaks and at the end of work.**Respiratory protection:** 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>Colour:</b>	Colourless
<b>Odour:</b>	Ether-like
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not determined.**Change in condition**

<b>Melting point/freezing point:</b>	-83 °C
<b>Initial boiling point and boiling range:</b>	190 °C

(Contd. on page 4)

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(Contd. of page 3)

<b>Flash point:</b>	75 °C
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	270 °C
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	14 Vol %
<b>Vapour pressure at 20 °C:</b>	0.4 hPa
<b>Density at 20 °C:</b>	0.956 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<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:</b>	4.55 mPas
<b>Kinematic at 20 °C:</b>	4.55 mm <sup>2</sup> /s
<b>VOC (EC)</b>	90 - 100 %
<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 relevant for classification:****34590-94-8 Dipropylene glycol monomethyl ether**

Oral LD50 5,135 mg/kg (rat)

Dermal LD50 &gt; 19,000 mg/kg (rab)

**Primary irritant effect:****Skin corrosion/irritation** No irritant effect.**Serious eye damage/irritation** No irritating effect.

(Contd. on page 5)

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(Contd. of page 4)

**Respiratory or skin sensitisation** No sensitising effects known.**12 Ecological information****Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behaviour 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 (German Regulation) (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 together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**14 Transport information****UN-Number**

ADR, ADN, IMDG, IATA not regulated

**UN proper shipping name**

ADR, ADN, IMDG, IATA not regulated

**Transport hazard class(es)**ADR, ADN, IMDG, IATA  
Class not regulated**Packing group**

ADR, IMDG, IATA not regulated

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

**UN "Model Regulation":**

not regulated

**15 Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****GHS label elements** The substance is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 6)

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(Contd. of page 5)

**Hazard pictograms** Void**Signal word** Warning**Hazard statements**

Combustible liquid.

**Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from flames and hot surfaces. No smoking.

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

In case of fire: Use to extinguish: 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.

**Directive 2012/18/EU****Named dangerous substances - ANNEX I** Substance is not listed.**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:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 4: Flammable liquids – Category 4

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