

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 identification****Classification of the substance or mixture**

Flammable Liquids - Category 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

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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place.

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.

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/19/2020

Version: 1.0

Reviewed on 06/19/2020

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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 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**CO₂, 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**

EL STEL: 150 ppm

TWA: 100 ppm

Skin

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/19/2020

Version: 1.0

Reviewed on 06/19/2020

Product name: TJ Pro FlushEV STEL: 910 mg/m³, 150 ppmTWA: 605 mg/m³, 100 ppm**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:**

Form:	Liquid
Color:	Colorless
Odor:	Ether-like
Odor threshold:	Not determined.

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

Melting point/Melting range:	-83 °C
Boiling point/Boiling range:	190 °C

Flash point: 75 °C**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** 270 °C**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: 0.4 hPa**Density at 20 °C:** 0.956 g/cm³

Relative density	Not determined.
Vapor density	Not determined.

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/19/2020

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Product name: TJ Pro Flush

Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C:	4.55 mPas
Kinematic at 20 °C:	4.55 mm ² /s
Solids content:	0.0 %
Other information	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.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.

Safety Data Sheet

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Product name: TJ Pro Flush**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/TDG**

UN1993

ADR, ADN, IMDG, IATA

not regulated

UN proper shipping name**DOT/TDG**

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

ADR, ADN, IMDG, IATA

not regulated

Transport hazard class(es)**DOT/TDG (Transport dangerous goods):****Class
Label**3 Flammable liquids
3**ADR, ADN, IMDG, IATA****Class**

not regulated

Packing group**DOT/TDG**

III

ADR, 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.

Safety Data Sheet

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Product name: TJ Pro Flush**DOT/TDG****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

Canadian substance listings:**Canadian Domestic Substances List (DSL)**

Substance is listed.

Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

Canadian Ingredient Disclosure list (limit 1%)

Substance is 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

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

Keep out of reach of children.

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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place.

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

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

Date of the latest revision of the safety data sheet 02/20/2020 / -**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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

Safety Data Sheet

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Product name: TJ Pro Flush

vPvB: very Persistent and very Bioaccumulative

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

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