

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Avery Dennison TrafficJet Ink: Flush, Yellow, Black, Worboy Green, Blue, Green, Red, and Brown

Additional identification: Printing ink; mixture

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

For industrial use only by qualified personnel

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -

Supplier(Manufacturer): Avery Dennison Corporation

Address: 250 Chester Street, Building #7, Painesville, OH
USA

Contact person(E-mail): reflective.orders@averydennison.com

Telephone: +1 (877) 214-0909

Fax: N/A

1.4 Emergency telephone Number:

CHEMTREC International:	+1 (703) 527-3887	CHEMTREC UK:	+(44)-870-8200418
CHEMTREC U.S.:	(800) 424-9300	CHEMTREC Spain:	900-868538
CHEMTREC Australia:	(02) 9037 2994	CHEMTREC Germany:	0800-181-7059
CHEMTREC New Zealand:	(09) 801 0034	CHEMTREC Italy:	800-789-767
CHEMTREC Mexico:	01-800-681-9531	CHEMTREC China:	4001-204937

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The mixture is classified as following according to 1999/45/EC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Skin Irrit. 2	H315
Eye Damage 1	H318
Repr. 1B	H360
STOT Single Exp. 3	H336

For full text of H- phrases: see section 2.2.

1999/45/EC	
Hazards characteristics	R-Phrases
Xi	R38
Xi	R41

-	R60
-	R67

For full text of R- phrases: see section 16.

2.2 label elements:



Hazard Pictograms:

Signal Word(S):

Danger

Hazard Statement:

H315: Causes skin irritation

H318: Causes serious eye damage

H360: May damage fertility or the unborn child

H336: May cause drowsiness or dizziness.

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P271: Use only outdoors or in a well-ventilated area.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

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

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

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to ...

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Diethylene Glycol Diethyl Ether	N/A	112-36-7	203-963-7	40-60

Gamma Butyrolactone	N/A	96-48-0	202-509-5	10-30
Tetraethylene Glycol Dimethyl Ether	N/A	143-24-8	205-594-7	1-10
Carbon Black	N/A	1333-86-4	215-609-9	0-5

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move to fresh air. Seek medical attention if irritation persists.

4.1.2 In case of skin contact:

Wash with soap and water and rinse thoroughly for 15 minutes. Get medical attention if blisters or inflammation are present on the skin.

4.1.3 In case of eyes contact:

Flush eyes and under eyelids for 15 minutes with water. Seek medical attention if irritation or redness persists.

4.1.4 In case of ingestion:

Do not induce vomiting. Rinse mouth with water but do not swallow and get medical attention. Call Poison Control or Physician immediately.

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

Causes skin irritation. Causes serious eye damage. May damage fertility or the unborn child. May cause drowsiness or dizziness.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water spray for cooling, foam, carbon dioxide, dry chemical, or Halon for fire suppression.

Unsuitable extinguishing media:

Not available.

5.2 Special hazards arising from the substance or mixture

Material is a flammable liquid but must be preheated for combustion. May burn in fire conditions releasing products, which may be toxic (CO, CO₂, and volatile organics).

5.3 Special fire fighting methods and special protective actions for fire-fighters:

Wear approved MSHA/NIOSH breathing apparatus and full protective clothing.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Keep good personal precautions. Keep products and raw materials are managed and stacked orderly. Work well in cleaning procedures for products and waste. Observe good industrial hygiene practices. Use personal protective equipment recommended in Section 8.

6.1.2 For emergency responders:

Evacuate personnel from the area. Shut off all sources of ignition; No flares, smoking, or flames in the area. Wear protective equipment.

6.2 Environmental Precautions:	Do not flush to sewer or waterways. Dike with soil. Cover with a sheet to prevent expanding odor.
6.3 Methods for Containment and Cleaning up:	For small spills, use absorbent media. Dispose of the absorbent media according to local, regional, and national regulations. For large spills, enclose the spilled liquid with sand. Recover the liquid while covering it with an oil-resistant antistatic sheet. Dispose of material according to local, regional, and national regulations.
6.4 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 information on disposal.
6.5 Additional information:	Not applicable.

Section 7 Handling and storage

7.1 Precautions for safe handling:	
7.1.1 Protective measures:	In accordance with good industrial practices, handle with care and avoid personal contact. Wear protective gloves, safety goggles, and other protective clothing. Avoid contact with skin, eyes, and clothing.
7.1.2 Advice on general occupational hygiene:	Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
7.2 Conditions for safe storage, including any incompatibilities:	Keep out of direct sunlight and away from heat source. Keep tightly closed. Use adequate ventilation.
7.3 Specific end use(s):	Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:	
8.1.1 Occupational exposure limits:	Carbon Black: TWA 3.5 mg/m ³ ; STEL 7 mg/m ³
8.1.2 Additional exposure limits under the conditions of use:	Not available.
8.1.3 DNEL/DMEL and PNEC-Values:	Not available.
8.2 Exposure controls:	
8.2.1 Appropriate engineering controls:	Facilities storing or utilizing this substance should be equipped with an eyewash facility and a safety shower. Use Process enclosures, local exhaust ventilation, or other engineering controls.
8.2.2 Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Safety Glasses with side shields, goggles, or face shield
Hand protection:	Chemical resistant gloves
Body protection:	Suitable safety clothes, aprons, shoes and protective boots
Respiratory protection:	Chemical cartridge respirator for an organic vapor, or pressure self-contained breathing apparatus.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	liquid	Color:	Colored
Odor:	mild odor		
Odor threshold:	Not available		
pH:	Not applicable		
Melting point/range (°C):	-25° C		
Boiling point/range (°C):	154° C		
Flash point (°C):	65° C (closed cup)		
Evaporation rate:	Not available		
Flammability limit – lower (%):	Not available		
Flammability (solid, gas):	Not available		
Ignition temperature (°C):	Not available		
Upper/lower flammability/explosive limits:	Not available		
Vapor pressure:	Not available		
Vapor density:	> 3 (air = 1)		
Density:	0.97-1.06 g/ml (20° C)		
Bulk density (kg/m ³):	Not available		
Water solubility (g/l):	Fully		
n-Octanol/Water (log Po/w):	Not available		
Auto-ignition temperature:	Not available		
Decomposition temperature:	Not available		
Viscosity, dynamic (mPa.s):	2 – 10 Cups		
Explosive properties:	Not available		
Oxidising properties:	Not available		
Molecular Formula:	Mixture (Not Applicable)		
Molecular Weight:	Mixture (Not Applicable)		
VOC:	7.8 lbs./gal		

9.2. Other information:

Fat solubility(solvent– oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Softening point/range:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	Stable under normal conditions
10.2 Chemical stability:	Stable under normal conditions
10.3 Possibility of hazardous reactions:	May burn in fire conditions releasing products, which may be toxic (CO, CO ₂ , and volatile organics).
10.4 Conditions to avoid:	Avoid heat and freezing temperatures

10.5 Incompatible materials: Strong Oxidizing materials, peroxides, acids or iron
10.6 Hazardous decomposition products: Will decompose to form carbon oxides when burned

Section 11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

11.2 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): >2500 mg/kg

LD50(Dermal, Rabbit): > 2000 mg/kg

LC50(Inhalation, Rat): -

Skin corrosion/Irritation: Causes skin irritation

Serious eye damage/irritation: Causes serious eye damage

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: May damage fertility or the unborn child

STOT- single exposure: May cause drowsiness or dizziness

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Section 12 Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	>220 mg/L	96h	Fish	DIN 38412	N/A	N/A
EC50	>500 mg/L	48h	Daphnia	92/69/EEC C.2, OECD-Guideline No. 202	N/A	N/A
EC50	> 10 mg/L	17h	Algae	92/69/EEC C.3, OECD-Guideline No. 201	N/A	N/A

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT & vPvB assessment: Not available.

Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

13.2 Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Section 14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by EU No 453/2010

16.2 Relevant R- phrases (number and full text):

R38: Irritating to skin.

R41: Risk of serious damage to eyes

R60: May impair fertility

R67: Vapors may cause drowsiness and dizziness.

16.3 Training instructions:

Not applicable.

16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this Product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.