

## 100-171 Black Fine Tip Ink Refill

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### 1. Identification

**Trade Name** 6577 Black

**Application of the substance / mixture** Used as inks for sketch pens, fine liners and all kinds of writing instruments.

**Classification of the substance or mixture**

### 2. Hazards identification

**GHS07**



Acute Tox. 4 H301 Harmful if swallowed  
Skin Irrit. 2 H315 Causes skin irritation  
Eye Irrit. 2A H319 Causes serious eye irritation

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest GHS editions of international substances lists and expanded upon from company and literature data.

**Label elements**

- **Labelling according to GH guidelines:**

The product has been classified and marked in accordance with GHS directives on hazardous materials.

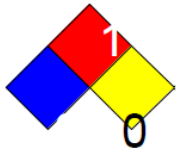
- **Hazard-determining components of labelling:** Banzyl alcohol. 2-Phenoxyethanol

**Safety phrases:**

- Keep locked up and out of the reach of children.
- Keep away from food, drink and animal feeding stuffs
- If swallowed, seek medical advice immediate and show this container or label
- Dispose of this material and its container to hazardous or special waste collection point

## Classification system:

### NFPA ratings (scale 0 - 4)



Health = 1

Fire = 1

Reactivity = 0

### HMIS-ratings (scale 0 - 4)



Health = 1

Fire = 1

Reactivity = 0

### Other hazards:

### Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3. Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture: consisting of the following components.

Dangerous components		
122-99-6	2-Phenoxyethanol	25-40%
65113-55-5	[4-[p,p'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium- [ [ p - anlllnophenyl ] a z o ] benzenesulphonate	12-25%
100-51-6	Benzyl alcohol	7-15%
110-98-5	1, 1'-oxydipropan-2-ol	3-8%
112-80-1	Oleic acid, pure	0.5-2%
90506-69-7	Phosphoric aci, mono- and bis(2-ethylhexyl) esters	0.5-2%
509-34-2	3',6' -bis(diethylamino)spiro[isobenzofuran-1(3H),9'[9H]xanthene]-3-one	0.1-1%
Non dangerous components		
111-90-2	2-(2-ethoxyethoxy)ethanol	0.5-3%
9003-39-8	Polyvinyl pyrrolidone	0.1-2%
25054-06-2	Formaldehyde, polymer with cyclohexanone	17-30%

## 4. First aid measures

### Description of first aid measures

**General information** Consult a physician. Show this safety data sheet to the doctor in attendance.

**After inhalation** If breathed in, move person into fresh air. If not breathing give artificial respiration.

Consult a physician.

**After skin contact** Get medical aid. Flush skin with

plenty of water for at least 15 minutes whilst removing contaminated clothing and shoes. Wash clothing before reuse.

**After eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After swallowing** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Oral route: Harmful if swallowed.

Skin: Causes skin irritation.

Eye: Causes eye irritation.

Information for the doctor Treat symptomatically and supportively.

Indication of any medical attention and special treatment needed Immediate medical attention is required. Treat symptomatically.

## 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing agents** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. For safety reasons unsuitable extinguishing agents Water with full jet.

Special hazards arising from the substance or mixture Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

Protective equipment Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**Environmental precautions** Do not allow product to reach sewage system or any water course.

**Methods and material for containment and cleaning up** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

**Reference to other sections**

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

## 7. Handling and storage

**Precautions for safe handling** Avoid contact with eyes and skin. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

**Information about protection against explosions and fires** Keep ignition sources away – Do not smoke.

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

**Storage**

**Requirements to be met by storerooms and receptacles** Store in well ventilated area. Store in a tightly closed container.

**Information about storage in one common storage facility** Store away from oxidizing agents.

**Further information about storage conditions** Store under inert gas.

**Specific end use(s)** Used as inks for sketch pens, fine liners and all kinds of writing instruments.

## 8. Exposure controls/personal protection

### Control parameters

Components with limit values that require monitoring at the workplace:	
100-51-6 Benzyl alcohol	
WEEL	Long-term value: 10 ppm
111-90-0 2-(2-ethoxyethoxy)ethanol	
WEEL	Long-term value: 25 ppm

Exposure controls

### Personal protective equipment:

**General protective and hygienic measures** Do not inhale dust/smoke/mist. Keep away from food stuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Breathing equipment** Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

### Protections of hands



*Protective gloves*

The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing test 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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of the 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



*Tightly sealed goggles*

**Body protection** Protective work clothing.

## 9. Physical and chemical properties

Information on basic physical and chemical properties	
General information	
Appearance:	
Form	Liquid
Colour	According to product specification
Odour	Characteristic
Change in condition	
Melting point/Melting range	Undetermined

Boiling point/Boiling range	205°C (401°F)
Flash point	101°C (214°F)
Ignition temperature	435°C (815°F)
Auto igniting	Product is not self-igniting
Danger of explosion	Product does not present an explosion hazard.
Vapour pressure at 20°C (68°F)	0.1 hPa
Density	Not determined
Solubility in/Miscibility with Water Other information	Not miscible or difficult to mix. No further relevant information available.

## 10. Stability and reactivity

### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** Avoid contact with incompatibles.

**Possibility of hazardous reactions** Reacts violently with oxidizing agents.

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

**Incompatible materials** Strong oxidising agent

**Hazardous decomposition products** Carbon oxides

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity:

LD/LC50 values that are relevant for classification:		
122-99-6 2-Phenoxyethanol		
Oral	LD50	1850 mg/kg bw (rat(Wistar)male/female)
Dermal	LD50	14391 mg/kg bw (rat)
Inhalative	LD50	>1000 mg/m <sup>3</sup> air (nominal) (rat(wistar)male/female)
100-51-6 Benzyl alcohol		
Oral	LD50	1045 mg/kg bw (rat(wistar)male)

### Primary irritant effect

#### On the skin:

CAS No. 110-98-5

Administration of 500 uL/24H of Di Propylene Glycol onto the skin rabbit causes moderate irritating effect.

CAS No.112-80-1

Administration of 500 mg of Oleic Acid onto the skin of rabbit causes mild irritant effect.

**On the eye:** Eye irritation: CAS No.122-99-6 Animal/Species: Vienna White rabbit cornea score:1.7

Chemosis score:1.3 Iris score:0.7

Result: Irritating to eyes CAS No.110-98-5

Administration of 500 mg of Di Propylene Glycol onto the eye of the rabbits causes mild.

**Additional toxicological information** Harmful  
Irritant

**Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients is listed.
<b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients is listed.

## 12. Ecological information

**Toxicity**

<b>Aquatic toxicity:</b>
<b>122-99-6 2-Phenoxyethanol EC50(48-h)</b>
>500 MG/L (Daphnia magna) EC50(72-h) >500 mg/L (Algae) LC50(96 -h) 344 mg/lit (Pimephales Promelas (Fathead Minnow))
<b>100-51-6 Benzyl alcohol EC50(48-h)</b>
230 MG/L (Daphnia magna) EC50(72-h) 770 mg/L (Algae) LC50(96-h) 460 mg/lit (Fish pimephales promelas)
<b>111-90-0 (2-Phenoxyethanol)ethanol</b>
EC50(72-h) 14861 MG/l (Algae) LC50(48-h) 1982 mg/L (Aquatic invertebrate)

**Additional ecological information:**

**General notes:**

Do not allow product to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

**PBT** Not applicable.

**vPvB** Not applicable.

## 13. Disposable considerations

**Waste treatment methods**

**Recommendation:**

Observe all federal, state, and local environmental regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:**

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

## 14. Transport information

UN-Number DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping names DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group	

DOT, ADR, IMDG, IATA	Not applicable
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 Quantity limitations	On passenger aircraft/rail: No limits On cargo aircraft only: No limits
UN "Model Regulation"	-

## 15. Regulatory information

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

#### Sara

Section 355 (extremely hazardous substances)
None of the ingredients listed
Section 313 (Specific toxic chemical listing)
None of the ingredients listed
TSCA (Toxic Substances Control Act)
None of the ingredients listed

#### Proposition 65

Chemicals known to cause cancer
None of the ingredients listed
Chemicals known to cause reproductive toxicity for females
None of the ingredients listed
Chemicals known to cause reproductive toxicity for males
None of the ingredients listed
Chemicals known to cause developmental toxicity
None of the ingredients listed

#### Carcinogenic categories

EPA (Environmental Protection Agency)
None of the ingredients listed
TLV (Threshold Limit Value established by ACGIH)
TLV (ACGIH): 1000 ppm
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients listed

**Product related hazard information** The product has been classified and marked in accordance with directives on hazardous materials.

**Hazard-determining components of labelling** Benzyl alcohol, 2-Phenoxyethanol.

**Safety phrases** Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. If swallowed seek medical advice immediately and show this container or label. Dispose of this material and its container to hazardous or special waste collection point.

#### National regulations

**Other regulations, limitations and prohibitive regulations** User to follow national laws and 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.

### Abbreviations and acronyms:

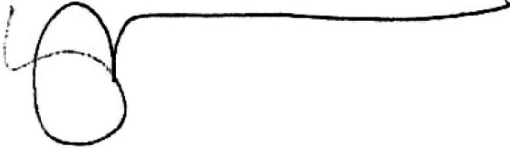
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organisation  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
ADR: Accord European 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  
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  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

### Sources

Occupational Safety & Health Administration (OSHA)  
<https://www.osha.gov/Publications/OSHA3514.html> ECHA-registered dossier for CAS no. 122-99-6  
<http://apps.echa.europa.eu/registered/data/dossiers/DISS-9d9ec9aa-68cf-6ad9-e044-00144f67d249/AGGR-6adf5bfd-e074-4533-9e19-5182281e1c29> DISS-9d9ec9aa-68cf-6ad9-e044-00144f67d249.htmlGEN



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