SAFETY DATA SHEET

KM 800 BLACK

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

Product Identifier

Product Name	: KM 800 BLACK
Reference Number	: KM800B10004
Use of the Substance	: Printer Ink
Supplier Details	: ColorJet India Limited B-195, Phase II, Noida, U.P. Phone : + 0120-4548195 Email : info@colorjetgroup.com
Recommended Use	: Inkjet Ink for use in Piezo printheads

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Physical hazards Flammable liquids	Category 4
Health hazards Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 4
Acute toxicity (Inhalation)	Category 4
Specific target organ toxicity Repeated exposure	Category 2

2.2 Label Elements:

OSHA Specified Hazards: not applicable

Hazard Statement(s):

H227: Combustible liquid

H302: Harmful if swallowed

H304: May be fatal if swallowed and enters airways
H312: Harmful in contact with skin
H315: Causes skin irritation
H319: Causes serious eye irritation
H332: Harmful if inhaled
H373: May cause damage to organs (Kidneys) through prolonged or repeated exposure

Precautionary statement:

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P262: Do not get in eyes, on skin or on clothing
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical, or alcohol foam for extinction.
P302+P352: If on Skin: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P363: Wash contaminated clothing 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.
P337+P313: If eye irritation persists: Get medical advice/attention.
P301+P310: If Swallowed: Immediately call a poison center or doctor/physician.
P331: Do NOT induce vomiting.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3: Composition/Information on Ingredients

S.No	Product Name	Concentration or Its Range	CAS NO
1	Ethylene glycol butyl ether acetate	112-07-2	50 - 80
2	Propylene glycol methyl ether acetate	108-65-6	5 - 20
3	Mono/Di/Tri/Tetra Alkylglycol mono/dialkyl ether or its esters or their mixtures.	Trade secret	0.0 - 10
4	Vinyl Chloride Vinyl Acetate Co-polymer or Resin binder	Trade secret	0.1 - 10
5	Acrylic Resin OR Resin Binder	Trade secret	0.0 - 10
6	Dispersants or special additives	Trade secret	0.1 - 10
7	Pigments	Trade secret	1.0 - 10

Section 4: First Aid Measures

4.1 Label Elements:

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water and wash with soap. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Ingestion: Not available.

Ingestion: In case of ingestion, do not induce vomiting. Call a physician, contact poison control center.

Section 5: Fire Fighting Measures

General Fire Hazards:
Combustible liquid and vapor. Use water with caution. Material will float and may ignite on the surface of the water.

5.1 Fire Fighting Media and Instructions:
Dry chemical. Carbon dioxide. Foam. Water spray Unsuitable extinguishing media: Do not use water jet.

5.2 Products of Combustion:
Carbon dioxide, carbon monoxide and volatile organics.

5.3 Fire Fighting Protection Equipment
Self-containing breathing apparatus and full protective clothing must be worn in case of fire.

5.4 Special Hazards:
Component may for peroxides of unknown stability.

Section 6: Accidental Release Measure

6.1 Personal precautions, protective equipment, and emergency procedures:
In case of accidental spill, ensure that all equipment used is fire proof, ventilate the area in keeping with the good chemical practice's norms/ local air exposure norms in check, absorb spill with inert absorbent. Use Non-sparking tools.

6.2 Environmental Precautions:
Avoid release to the environment.

6.3 Methods and materials for containment for cleaning up:
Eliminate any source of ignition. Absorb spill with vermiculite or other inert material and then place in a container for chemical waste. LARGE SPILLAGES: Flush spill area with water spray. Prevent run-off from entering drains, sewers, or streams. Dike for later disposal.

6.4 Notification Procedures:
In the event of spill or accidental release, notify relevant authorities in accordance with applicable regulations.

Section 7: Handling and Storage

7.1 Precautions for safe handling:
Keep away from heat and other sources of ignition. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use adequate ventilation. Wash thoroughly after handling Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

7.2 Conditions for storage including any incompatibilities:
Keep away from food, drink, and animal feeding stuff. Keep container tightly closed and in a well-ventilated place. Store away from heat and light.

7.3 Specific end use(s):
Reserved for industrial and professional use only.

Section 8: Exposure Control/Personal Protection

8.1 Control parameters
Occupational Exposure Limits
ACGIH

Component Name	Type	Value
Ethylene glycol butyl ether acetate (CAS112-07-2)	TWA	20.00 ppm

USWEEL

Component Name	Type	Value
Propylene glycol methyl ether acetate (CAS 108-65-6)	TWA	50.00 ppm

8.2 Engineering Controls:
Appropriate Engineering Controls:
Provide exhaust ventilation or other engineering controls (Typically 10 air changes per hour) to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work- station location.

Individual protection measures, such as personal protective equipment.
Eye, and face protection:
Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Recommended Gloves: Nitrile, 6 mm minimum thickness.

Respiratory protection:

Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

Section 9: Physical and Chemical Properties

Properties	Data	Properties	Data
Appearance	Colored liquid	Odor	Solvent like
Boiling Point	Not Available	Flash Point	>65^{0}C
Density	1-1.1g/cc (25^{0}C)	Vapor Pressure	Not Available
Evaporation Rate	Not Determined	Viscosity @25 Deg.C.	Between 8 – 15 mpas.

Section 10: Stability and Reactivity

10.1 Reactivity: None known

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazards- reactions: Forms peroxides of unknown stability

10.4 Conditions to avoid: Heat, sparks, flames

10.5 Incompatible materials: Strong oxidizing agents

10.6 Hazardous decomposition products: Carbon dioxide and carbon monoxide

Section 11: Toxicological Information

Information on likely routes of exposure
Inhalation: Harmful if inhaled
Ingestion: Harmful if swallowed
Skin Contact: Harmful in contact with skin
Eye contact: None known

Symptoms related to the physical, chemical, and toxicological characteristics: Not available
The product being used consists of Solvents, additives, and pigments and thus precaution should be taken to ensure that the exposure to the same is restricted.

ACGIH Carcinogenicity
Ethylene glycol butyl ether acetate (CAS112-07-2) Not available

Specific products for which information is available with us are:

Component Name	CAS No	Test-Species-Result
Ethylene glycol butyl ether acetate	112-07-2	Oral LD50 Rat: >1880mg/kg, Dermal LC50 Rabbit: >1500mg/kg, Inhalation LC50: not available
Propylene glycol methyl ether acetate	108-65-6	Oral LD50 Rat: >8500mg/kg, Dermal LC50 Rabbit: >5000mg/kg, Inhalation LC50: not available

Serious eye damage/eye irritation Not available.
Skin sensitization Not available.
Specific organ Toxicity 2-Butoxyethyl acetate (CAS 112-07-2)
Single Exposure: No data available
Repeated Exposure: Inhalation: Kidney
Other adverse effects: Can cause kidney damage
Specific organ Toxicity Propylene glycol methyl ether acetate (108-65-6)
Single Exposure: No data available
Repeated Exposure: Inhalation: Kidney, Liver, nasal tissue
Other adverse effects: Can cause kidney damage
Further information: Complete toxicity data are not available for this specific formulation

Section 12: Ecological Information

12.1 **Toxicity**

Ethylene glycol butyl ether acetate (112-07-2)

Acute Toxicity

Fish:	LC50 (Rainbow trout, 96h): 20-40 mg/l
Aquatic invertebrates:	EC-50 (daphnid, 48h): 37 mg/l

Chronic Toxicity

Fish:	No data available
Aquatic invertebrates:	No data available

Toxicity to aquatic plants

Algae:	EC-50 (Pseudokirchneriella subcapitata), 72h):1570 mg/l

Propylene glycol methyl ether acetate (108-65-6)

Acute Toxicity

Fish:	LC50 (Rainbow trout, 96h): 134 mg/l
Aquatic invertebrates:	EC-50 (daphnid, 48h): 408 mg/l

Chronic Toxicity

Fish:	No data available
Aquatic invertebrates:	No data available

Toxicity to aquatic plants

Algae:	EC-50 (Pseudokirchneriella subcapitata), 72h):>1000 mg/l

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulation potential

Bioaccumulation potential is low.

12.4 Mobility in soil

Potential for mobility in soil is high

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

As this product maybe a mixture of chemicals, some of which may be ecologically toxic, it is strongly recommended that it is not disposed of into the environment. i.e. soil, water, lakes, landfills, sewers, etc.

Section 13: Disposal Considerations

13.1 Waste Disposal Method:

Dispose of in accordance with all applicable local governmental regulation. Prevent from entering drains, sewers, streams, or other bodies of water without complete treatment as per local use. It is the Responsibility of the user to determine if local, county, state or provincial regulations may also apply to the disposal of this product and /or the container.

Section 14: Transport Information

IATA

Not regulated

Not Regulated. The product(s) described by this SDS are NOT classified as Hazardous Material/ Dangerous Goods as defined by the US DOT, ICAO, IATA, IMO, or TDG. Observe side up markings. Avoid getting the package wet. Handle with care if package seal is broken. Do not stack packages more than five high. Comply with relevant shipping regulations.

Section 15: Regulatory Information

Follow all regulatory requirements applicable to your area.

Sara Title III 313 Information – Glycol Ether and their acetates as mixtures are classified for reporting under this section.

Toxic Substances Control Act (TSCA) Status

All Ingredients in Section 3 are listed on the U.S. Environmental Protection agency TSCA inventory.

WHMIS Classification (Canada):
B3_Combustible Liquids: D1B_ Material causing immediate and serious toxic effects, toxic material: D2B_ materials causing other Toxic effects, toxic material.

Section 16: Other Information

NFPA Hazard Rating: Health – 1, Fire – 2, Reactivity - 0
HMIS® Hazard Ratings: Health - 1, Flammability - 2, Chemical Reactivity - 0
HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.
Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.