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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Product Name : OCI FLEXO BOPP INKS
SHADE: ALL COLORS /VARNISH
Intended use : Printing on BOPP.
Company details : OLYMPIC INKS. LTD.
Veepee Ind. Avenue, Km38 Lagos Abeokuta Exp. Way,
Sango Ota
Ogun State , Nigeria

2. Physical Description/Properties

General Information

Form : liquid
Colour : According to product specification
Smell : Characteristic

Change in condition

Melting point / Melting range : Not determined
Boiling Point / Boiling range : 78°C
Flash Point : 5°C
Ignition Temperature : 230°C
Self-inflammability : Product is not self-igniting.
Danger of explosion : Product is not explosive.

Critical values for explosion

Lower : 1.1 Vol %
Upper : 12.0 Vol %
Stem pressure at 20°C : 47 hPa

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Solubility in / Miscibility with :
Water : Immiscible
Solvent Content
Organic Solvent : 60-70 %

3. Composition / Data on Ingredients:

Chemical Characterization

Description : Synthetic resin based lacquer

Ingredients	Risk Phenomenon	CAS Number	Composition
Pigment	R10 15	AS PER STD	10-15 %
Downol PMA	R11	107-98-2	10.0%
Ethyl acetate	R11	141-78-6	40-50 %
Nitro Cellulose	Highly Flameable	9004-70-0	6-10%

4. Transport information

Road transport

ADR : Non-Hazardous goods.
RID : Non-Hazardous goods.
ADR / RID-GGVS/E Class : 3 Flammable liquids.
UN-Number : 1210
Packaging group : III
Label : 3
Designation of goods : 1210, liquied inks
Remark : good of class 3

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Inland waterways transport :

ADNR : Non-Hazardous goods.

Marine transport :

IMDG/UN : Non-Hazardous goods

IMDG/ GGVeA Class : 3

UN Number : 1210

Label : 3

Packaging group : III

Marine Pollutant : Yes

Correct Technical name : ink

Air transport :

ICAO/IATA-DGR : Non-Hazardous goods

Class : 3

UN / ID Number : 1263

Label : 3

Packaging Group : III

Correct technical Name : ink

Dispatch by post : permitted.

5. Health Hazard Information

Flammable liquid. Adverse health effects are caused by inhaling, contact with skin and ingestion.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

6. First Aid

If poisoning occurs, contact a doctor or Poisons Information Center.

Swallowed: If swallowed and if more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup APF.

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Skin: Wash thoroughly with mild soap and water. Remove contaminated clothing and launder before reuse.

Eye: Hold eyes open, flood with water for at 15 minutes. Seek medical attention if irritation persists.

Inhaled: Remove patient to fresh air and to rest. Apply artificial respiration if not breathing.

7. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray jet, foam, carbon dioxide, Dry powder

Not to be used: Water

Danger caused by substance

Risk of explosion of partly filled containers. Danger of intoxication through vapors and smoke gas.

Special protection measures

Oxygen mask might be required. Cool closed and overheated containers with water spray.

Do not allow extinguishing water to drain into the sewage system, the soil or surface waters. Ensure adequate retention facilities for the extinguishing. Contaminated extinguishing water and soil must be disposed of in accordance with the appropriate local regulation.

Protective equipment: No special measures required.

8. Accidental release measures

Wear protective equipment. Keep unprotected person away.

Measure for environmental:

Inform respective authorities in case product reaches water or sewage system.

Prevent contamination of soil, drains and surface water.

Cleaning method:

Pick up absorbent material (sand, acid binder, saw dust), when picked up, treat material as suggested under heading "disposal".

Personal precautions:

Do not breathe vapors, avoid ignition sources, and avoid contact with skin, eyes and clothing.

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09. HANDLING AND STORAGE:

Handling: Avoid extremes of temperatures & keep it in tightly closed containers. Keep it away from smoking, flames, hot elements or other sources of ignition .ground to avoid static charge during mixing & pumping. Wear appropriate protective clothing. Use explosion proof equipment & tools.

Storage: Store in a cool, well-aired place in tightly sealed container

10. STABILITY & REACTIVITY:

- a. Stability: Stable under recommended storage condition.
 - b. Condition to avoid : Heat, Smoking, Open flames & other sources of ignition, for example
Sparks for engineering work or static electricity.
 - c. Materials to Avoid : Strong oxidizing agents.
 - c. Decomposition Product: Carbon dioxide, Carbon monoxide.
-

11. TAXICOLOGIAL INFORMATION:

Acute toxicity:

Primary irritant effect :
On the skin : No irritant Effect.
On the eye : irritant effect.
On respiratory organs : No irritant effect.
Sensitization : No Sensitization effect.

12.Ecological information :

General information:-

Slightly Hazardous for water. Do not allow to reach ground water, water bodies or sewage system.

13. EXPOSURE STANDARDS / PERSONAL PROTECTION:

Engineering Controls: Ensure that TLV standards are not exceeded. The product should be handled and used in a well-ventilated area. Keep clear of sources of ignition.

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Personal Protection: Common sense dictates that precautions should be taken to avoid swallowing and/or skin contact with product. Protection from splashing will be required while handling the product. Use safety glasses or face shield and impermeable gloves and overalls. If TLV standards are exceeded self-contained breathing apparatus or a remote supply fresh air mask is required. Observe sensible personal hygiene standards; always wash before eating drinking or visiting the toilet.

Exposure guidelines OSHA Hazardous Components (29 CIR 1910.1200) – Exposure Limits)

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Iso Propyl Alcohol	200	500	400	---
Ethyl Acetate	400	1400	---	---
Methoxy Propanol	---	---	---	---

Personal protective equipment:

Hygiene measure : keep away from foodstuff and beverages. Wash hand before breaks
And After work. Clean skin thoroughly after work.

Respiratory protection: in case of insufficient ventilation

Hand protection : use gloves

Eye protection : use safety glasses

14. Disposal consideration:

Product: - According to the current regulations, it may be taken to waste disposal site or incineration plant, after consultation with site operator or responsible authority.

Unclean packaging:-

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Used packing should be cleaned as much as possible so that, it can be taken for reuse, otherwise disposal must be made according to official regulations.

15 . STATUTORY INFORMATION

This preparation was classified in compliance with the directive known as < All preparations > 88/379/EEC and its adaptations.

In addition directive 93/72/EEC with the 20° adaption of directive 67/548/EEC (Hazardous substances) have been taken into account.

Preparation classification:

Flammable -R10
Highly Flammable -R 11
Harmful by Inhalation – R20
Irritating to Eyes - R36

Particular hazards associated with the preparation and safety phrases :

S2 → Keep out of reach of children.
S7 → Keep container tightly closed.
S9 → Keep container in well ventilated place.
S 16 → Keep away from sources of ignition.
S 23 → Do not breathe gas / vapour / fumes / spray.
S 24 → Avoid contact with skin.
S 25 → Avoid contact with eyes.
S 29 → Do not empty into drains.
S 33 → Take precautionary measures against static discharges.

16. OTHER INFORMATION

NFPA Codes:	Health	1	HMS	1
	Fire	2	Codes:	2
	Reactivity	0	Reactivity	0
			Protection	G

Additional Information The OSHA Hazard Communication Standard, 29 CFR 1910.1200, Paragraph (g) (4), specifically permits chemical manufacturers to single MSDS for a category of complex mixtures, where those

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“Mixtures” have similar hazards and contents. Therefore this MSDS applies to the range of products described in Section 1, or all products with same product name listed in section 1 (unless described otherwise). Where specific data is required for the purposes of regulatory reporting, a Technical Data Sheet shall be provided for the specific product, on request to us (manufacturer).

Notice : Recipients of this Material Safety Data Sheet must make their own assessment of workplace risk as required by other health and safety legislation.

Liability: The information in this MSDS is correct to the best of our knowledge at the date of publication. It is given in good faith but no warranty is implied with respect to the quality specification of the product.

These data are based on our present knowledge. However, they shall not constitute a guarantee

For any specific product features and shall not establish a legally valid contractual relationship.