Safety Data Sheet

1332 Colored Inks

SECTION 1 *Product Identification and General Information*

Manufacturer: International Imaging Materials, Inc.
Manufacturer Address: 310 Commerce Drive, Amherst, New York 14228-2396
Product Information: 716-691-6333 (contact Director, Manufacturing Engineering)
Emergency Phone Number (24 Hour): Infotrac 1-800-535-5053 for Domestic USA (For Hazardous Materials (or Dangerous Goods) Incident, Spill, Leak, Fire, Exposure or Accident)
Emergency Phone Number (Outside U.S. and Canada): Infotrac 1-325-323-3500 (collect calls accepted)
Product Numbers: 1332 Colored Inks (All Colors)
Product Use: Printing Inks
Date SDS Prepared: 3/12/2020

This SDS has been prepared for the purposes of Hazard Communication, under 29 CFR 1910.1200.

SECTION 2 *Hazards Identification*

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Target Organs: Central Nervous System

GHS Classification: Flammable liquids (Category 2); Eye irritation (Category 2A);
Specific target organ toxicity - single exposure (Category 3), Central nervous system

GHS Label Elements, including Precautionary Statements:

Pictograms:



Signal Word: Danger

Hazard Statements:
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
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Precautionary Statements:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash skin thoroughly after handling.
Wear protective gloves/ eye protection/ face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3 ***Composition/Information on Ingredients***

Contents	Synonyms	Percent by Weight	CAS No.	OSHA PEL	ACGIH TLV	LISTED CARCINOGEN (IARC/OSHA/NTP)
Ethanol	Ethyl Alcohol	15% - 35%	64-17-5	1000 ppm	1000 ppm	No
Dipropylene Glycol Monomethyl Ether	DPGME	1% - 10%	34590-94-8	100 ppm	100 ppm	No
2-Propoxyethanol		50% -55%	2807-30-9			No
Ethyl Acetate		5% - 10%	141-78-6	400 ppm	400 ppm	No
Nitrocellulose		2% - 6%	9004-70-0			No
Isopropanol	2-Propanol	2% - 6%	67-63-0	400 ppm	200 ppm	IARC 3 (See Section 11)
Xylene		0.1% - 1%	1330-20-7	100 ppm	100 ppm	IARC 3 (See Section 11)
Modified Polymers/Binders		5% - 10%	Proprietary			No
Carbon Black		2% - 6%	1333-86-4	3.5 mg/m^3	3.5 mg/m^3	IARC 2B (See Section 11)
Colored Pigments		1% - 2%	Proprietary			No

SECTION 4 ***First Aid Procedures***

Description of First Aid Measures:

Eye Contact: Flush with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion: Inducing vomiting should only be performed under the direct supervision of medical personnel. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling (see Section 2) and/or in Section 11.

Indication of any immediate medical attention and special treatment needed: No data available.

SECTION 5 ***Fire-Fighting Measures***

Flash Point: <70°F

Fire and Explosion Hazards: Flammable Liquid. Dangerous fire hazard when exposed to heat or flame.

Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide. Alcohol resistant foams (ATC) are preferred, if available.

Special Hazards arising from the Substance or Mixture:

Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire-exposed containers cool.

Unusual Fire and Explosion Hazards: This flammable liquid must be kept away from sparks, open flame, hot surfaces, and all sources of heat and ignition. Decomposition materials may emit acrid smoke and irritating fumes. Never use welding or cutting torch on or near drum (including empty) because product can ignite explosively.

SECTION 6 ***Accidental Release Measures***

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections: For disposal see section 13.

SECTION 7 *Handling and Storage*

Precautions for Safe Handling: Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard. Separate from incompatibles. Storage and use areas should be NO SMOKING areas. Use non-sparking tools and equipment. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Conditions for Storage: Store in a cool, dry, well ventilated place, in securely closed original container. Flammable/combustible - Keep away from oxidizing agents, heat and flames.

Specific End Uses: Apart from the uses mentioned in Section 1 no other specific uses are stipulated

SECTION 8 *Exposure Controls/Personal Protection*

Ingredients	CAS No.	OSHA PEL	ACGIH TLV
Ethanol	64-17-5	1000 ppm	1000 ppm
Dipropylene Glycol Monomethyl Ether	34590-94-8	100 ppm	100 ppm
Ethyl Acetate	141-78-6	400 ppm	400 ppm
Isopropanol	67-63-0	400 ppm	200 ppm
Xylene	1330-20-7	100 ppm	100 ppm
Carbon Black	1333-86-4	3.5 mg/m^3	3.5 mg/m^3

Eye Protection: Use chemical safety glasses or goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use explosion-proof equipment.

Respiratory Protection: Appropriate respiratory protection is required when exposure to airborne contaminant is likely to exceed acceptable limits. Respirators should be selected and used in accordance with OSHA Part 1910.134 and manufacturer's recommendations.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or overalls, as appropriate, to prevent skin contact. Check with your safety supplier for the proper chemical-resistant gloves.

SECTION 9 *Physical and Chemical Properties*

Appearance: Liquid
Color: Colored
Odor/Taste: Alcohol-like
Odor Threshold: Not Determined
pH: Not Determined
Solubility Description: Partially Soluble In Water.
Boiling Point (°C@760 mmHg): 70°
Melting Point (°F/°C): N/A
Auto ignition Temperature: Not Determined
Partition Coefficient (n-octanol/water): Not Determined
Explosive Properties: Not Determined

Flashpoint: <70°F
Flammability (solid, gas): Not Determined
Upper/Lower Flammability: Not Determined
Freezing Point (°F/°C): -124° /-86°
Specific Gravity (@68°F, Water=1): ~0.90
Vapor Density (Air=1): >2.5
Vapor Pressure (mmHg@68° F): <70
Viscosity: Not Determined
Evaporation Rate (Butyl Acetate=1) : ~1
Decomposition Temperature: Not Determined
Oxidizing Properties: Not Determined

SECTION 10 *Stability and Reactivity*

Reactivity: No data available.
Stability: Stable.

Possibility of Hazardous Reactions:

Conditions to Avoid: Heat, flames, sparks, ignition sources and incompatibles.
Incompatibility (materials to avoid): Oxidizing materials.
Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization: Will not occur.

SECTION 11 ***Toxicological Information***

Information on toxicological effects (Ethanol)
Acute toxicity: LD50 Oral - Rat - 10,470 mg/kg**;** LC50 Inhalation - Rat - 4 h - 30,000 mg/l**;** LD50 Dermal - Rabbit - 15,800 mg/kg
Skin corrosion/irritation: Skin – Rabbit-Result: No skin irritation - 24 h (OECD Test Guideline 404)
Serious eye damage/eye irritation: Eyes – Rabbit-Result: Moderate eye irritation (OECD Test Guideline 405)
Respiratory or skin sensitization: No data available

International Agency for Research on Cancer ("IARC") Classification for Carbon Black:
In its Monograph Volume 65, issued in April 1996, the International Agency for Research on Cancer (IARC) re-evaluated carbon black and concluded that, "there is inadequate evidence in humans for the carcinogenicity of carbon black". The carbon black used contains less than 0.1% of adsorbed PAHs (polynuclear aromatic hydrocarbons). In non-adsorbed form, some PAHs have been found to be carcinogenic in animal studies. No correlating carcinogenic effect, however, has been observed in humans due to exposure to carbon black. However, the IARC evaluation in Monograph 65 concluded that there is "sufficient evidence in experimental animal for the carcinogenicity of carbon black".

International Agency for Research on Cancer ("IARC") Classification for Isopropanol and Xylenes:
Isopropanol and Xylenes are classified as IARC Group 3 or Unclassifiable as Carcinogenic to Humans.

SECTION 12 ***Ecological Information***

Environmental Toxicity: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. Do not discharge product into the environment.

SECTION 13 ***Disposal Considerations***

Waste Disposal Method: Recovered non-usable material may be regulated as a hazardous waste due to its ignitibility and/or its toxic characteristics. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations. State and/or local regulations may be more restrictive.

SECTION 14 ***Transport Information***

USDOT and IMDG Regulations

Proper Shipping Name – UN1210, Printing Ink, 3, PG II
Hazard Class – 3 (Flammable Liquid)
Identification Number – UN1210
Packing Group - II

IATA Regulations

Proper Shipping – UN1210, Printing Ink, 3, PG II

SECTION 15 ***Regulatory Information***

Toxic Substances Chemical Inventory (TSCA): This product (and/or all of its components) is in compliance with USEPA TSCA.

SECTION 16 ***Other Information***

HMIS Hazard Rating: Health – 2; Fire – 3; Reactivity – 0; PPE – Goggles & Shield; Apron; Vent Hood; Proper Gloves; Fire Extinguisher

SDS Preparation Date: 3/12/2020

DISCLAIMER:

The information accumulated herein is believed to be accurate and represents the best data currently available. It is the user's responsibility to determine suitability of use. No warranty, expressed or implied, is made and IIMAK assumes no legal responsibility or liability resulting from its use. Materials comprising <1% by weight, or <0.1% by weight if the chemical is a carcinogen, are not listed herein.