

Safety Data Sheet

42M Colored Inks

SECTION 1 *Product Identification and General Information*

Manufacturer: Marking Device Mfg Co LLC

Manufacturer Address: 225 Lincoln Highway, Fairless Hills, Pa 19030

Product Information: 215-632-9583

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 US and Canada): Infotrac 1-325-323-3500

Product Numbers: 42M Colored Inks(Black, Red, White, Green, Purple, Orange and Yellow)

Product Use: Printing Ink

Date SDS Prepared: 3/05/2020

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

SECTION 2 *Hazards Identification*

GHS Classification:

GHS Label Elements, including Precautionary Statements:

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



Pictograms:

Signal Word: Danger

Hazard Statements: Highly Flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness and dizziness.

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.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ eye protection/ face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
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.

Hazards Not Otherwise Classified (HNOC): 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	10% - 20%	64-17-5	1000 ppm	1000 ppm	No
Dipropylene Glycol Monomethyl Ether	DPGME	15% - 25%	34590-94-8	100 ppm	100 ppm	No
2-Propoxyethanol		10% - 30%	2807-30-9			No
Diacetone Alcohol	DAA	10% - 20%	123-42-2	50 ppm	50 ppm	No
Ethyl Acetate		2% - 6%	141-78-6	400 ppm	400 ppm	No
Nitrocellulose		1% - 10%	9004-70-0			No
Isopropanol	2-Propanol	1% - 6%	67-63-0	400 ppm	200 ppm	IARC 3 (See Section 11)
Modified Polymers/Binders		5% - 10%	Proprietary			No
Carbon Black (Black Only)		2% - 6%	1333-86-4	3.5 mg/m ³	3.0 mg/m ³	IARC 2B (See Section 11)
Colored Pigments		1% - 10%	Proprietary			No

SECTION 4 *First Aid Procedures*

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 labelling (see section 2.2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed: None.

SECTION 5 *Fire-Fighting Measures*

Flash Point: <70°F

Fire and Explosion Hazards: Flammable Liquid. Dangerous fire hazard when exposed to heat or flame. Explosive peroxides may form on prolonged storage in contact with air and heat.

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

Special 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 1.2 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
Diacetone Alcohol	123-42-2	50 ppm	50 ppm
Ethyl Acetate	141-78-6	400 ppm	400 ppm
Isopropanol	67-63-0	400 ppm	200 ppm
Carbon Black	1333-86-4	3.5 mg/m ³	3.0 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
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SECTION 10 *Stability and Reactivity*

Stability: Stable.

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*

No toxicity studies have been conducted on this product. As with all chemicals for which test data are limited or do not exist, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

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. There are still ongoing scientific discussions on the relevance of tumorigenic response in rats to inorganic insoluble particles like carbon black. Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. 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:

Isopropanol is 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 ignitability 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: 3/5/2020

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.
