Safety Data Sheet

Frozen Food Color 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, Process Engineering)

Emergency Phone Number (24 Hour): Chemtrec 1-800-424-9300 (For Hazardous Materials (or Dangerous Goods) Incident,

Spill, Leak, Fire, Exposure or Accident)

Emergency Phone Number (Outside U.S. and Canada): Chemtrec +01 703-527-3887 (collect calls accepted)

Product Numbers: Frozen Food Color Inks (Black, Blue, Red, White, Dark Blue, and Green)

Chemical Name: Frozen Food Color Inks

Date SDS Prepared: 11/21/2016

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

SECTION 2 Hazards Identification

EMERGENCY OVERVIEW: Danger! Flammable liquid, Target Organ Effect, Irritant.

Target Organs: Central Nervous System

GHS Classification: Flammable liquids (Category 3); Acute toxicity, Oral (Category 4);

Acute toxicity, Dermal (Category 4), Eye irritation (Category 2A), Acute aquatic toxicity (Category 3)

GHS Label Elements, including Precautionary Statements:





Pictograms:

Signal Word: Danger

Hazard Statements: Flammable liquid and vapor.

Harmful if swallowed or in contact with skin

Causes serious eye irritation. Harmful to aquatic life..

Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use personal protective equipment as required.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

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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% - 20%	64-17-5	1000 ppm	1000 ppm	No	
Diacetone Alcohol		10% - 15%	123-42-2	50 ppm	50 ppm	No	
n-Hexyl Alcohol	n-Hexanol	35% - 40%	111-27-3			No	
Ethylene Glycol Monomethyl Ether		15% - 20%	109-86-4	25 ppm	0.10 ppm	No	
Modified Polymers/Binders		10% - 15%	Proprietary			No	
Colored Pigments		1% - 15%	Proprietary			No	

The hazards associated with overexposure to this mixture are assumed to be due to exposure to the components.

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 waster 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.

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 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

Spill Procedure: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (i.e., vermiculite, dry sand, and earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! If leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

US Regulations (CERCLA) require reporting spills and releases to soil, water, and air in excess of reportable quantities.

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SECTION 7 Handling and Storage

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.

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

SECTION 8

Exposure Controls/Personal Protection

Ingredients	CAS No.	OSHA PEL	ACGIH TLV
Ethanol	64-17-5	1000 ppm	1000 ppm
Diacetone Alcohol	123-42-2	50 ppm	50 ppm
Ethylene Glycol Monomethyl Ether	109-86-4	25 ppm	0.10 ppm

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: N/A

Solubility Description: Soluble In Water. **Boiling Point** (°C@760 mmHg): 70°

Melting Point ($^{\circ}F/^{\circ}C$): N/A

Flashpoint: <70°F

Freezing Point (°F/°C): -124°/-86° Specific Gravity (@68°F, Water=1): ~1

Vapor Density (Air=1): >2.5

Vapor Pressure (mmHg@68° F): <70

Volatility Description (% Volatile (Volume): 95 Evaporation Rate (Butyl Acetate=1): ~0.223

SECTION 10

Stability and Reactivity

Stability: Stable, under normal storage conditions.

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.

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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.

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 Label Required – Flammable

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: 11/21/2016

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.

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