

Franklin International MATERIAL SAFETY DATA SHEET

MSDS Name: IMAGE MATE DC 521
MSDS Number: 070286

Revision Date: 013105
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FRA DC 521 - Dual Cure

Emulsion

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: IMAGE MATE DC 521
CAS Number: none
HMIS Hazard Rating: Health: 1 Fire: 1 Reactivity: 1

Company Identification: Franklin International
2020 Bruck Street
Columbus OH 43207

Contact: Franklin Technical Services
Telephone/Fax: (800) 877-4583 (614) 445-1493
Emergency Phone (24 Hour): Franklin Security
(614) 445-1300
Chemtrec (24 Hour): (800) 424-9300
Chemtrec International: (703) 527-3887

Product Class: Pigmented Polymer Dispersion
Product Use: Screen graphics
Product Code: 57028

Division: Polymer Products

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Percent
acrylate oligomer/ monomer blend	mixture	7.00

The actual percentage of the acrylate oligomer/monomer blend listed in Section 2 may vary +/- 1%.

OSHA PELs & ACGIH TLVs are listed in Section 8 where applicable.

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION: Eye, skin, and respiratory tract irritant. May cause allergic skin reaction. Avoid contact with eyes and skin. Avoid breathing vapors. Use only with adequate ventilation. Keep container closed when not in use. Keep away from heat, open flame and sunlight. If spilled, extinguish all ignition sources and ventilate area.

ROUTES OF ENTRY:

INHALATION: Yes

INGESTION: No

Skin: Yes

EYE: Yes

INHALATION:

No hazard in normal industrial use.

Vapors and/or aerosols which may be formed at elevated temperature may be irritating to eyes and respiratory tract.

No reported incidents of adverse health effects resulting from inhalation of vapors at room temperature.

INGESTION:

No hazard expected in normal industrial use. Do not eat or drink or smoke around chemicals. Follow good hygiene practices.

SKIN:

May cause skin irritation. Allergic reactions are possible.

May cause skin sensitization, an allergic reaction, which may become evident on reexposure to this product.

EYE:

May cause destruction of eye tissue. Symptoms include severe pain or burning sensation, tearing, blinking, redness, or swelling.

Substance may cause severe eye irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

This material or its emissions may defat skin, cause contact dermatitis, induce an allergic or sensitization reaction and thereby aggravate systemic disease or existing skin disease.

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CARCINOGENICITY:

ACGIH: No

IARC: No

NTP: No

OSHA: No

REPRODUCTIVE TOXICITY:

None currently known.

TARGET ORGANS:

Eyes and skin.

SECTION 4 - FIRST AID MEASURES

INHALATION:

If overcome by exposure, remove person to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

INGESTION:

Ingestion of this product is unlikely. If a large quantity is swallowed, give lukewarm water (pint) if person is completely conscious/alert. Do not induce vomiting. The risk of damage to the lungs through aspiration exceeds the poisoning risk. Obtain emergency medical attention.

SKIN:

Remove contaminated clothing. Use waterless skin cleaner followed by soap and water wash. Contact physician if irritation develops or persists.

EYE:

In the case of eye contact, immediately rinse with clean water for 20 to 30 minutes. Retract eyelids often. Obtain emergency medical attention.

SECTION 5 - FIRE-FIGHTING MEASURES

Flammability Class (OSHA)

IIIB

Flash Point:

> 200 F

Setaflash

Explosive Range:

Not Applicable

EXTINGUISHING MEDIA:

Foam, CO2, dry chemical.

Use water spray/water fog for cooling.

HAZARDOUS COMBUSTION PRODUCTS:

Acrid smoke - fumes of carbon monoxide, carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

FIRE FIGHTING PROCEDURES:

Do not enter fire area without proper protection. See this section - hazardous combustion products are possible. Fight fire from a safe distance/protected location. Heat/impurities may increase temperature, build pressure, rupture closed containers, spreading fire and increasing the risk of burns and other injuries. Water may be ineffective in fire fighting due to low solubility. Use water spray/fog for cooling. Pressure relief systems may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES:

Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay). See CLEAN-UP for further instructions.

CLEAN-UP:

Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/shovel into a vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean-up. For spills on

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water, contain, minimize dispersion and collect.

EMERGENCY MEASURES:

None required.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Wash thoroughly after handling.
Observe good personal and industrial hygiene practices.
Follow all MSDS/label precautions even after container is emptied.
Containers may retain product residues and vapors.

STORAGE:

Do not store at or below 32F - inhibitor can separate as a solid. If frozen, warm and remix material gently (<90F). DO NOT USE A DRUM OR BAND HEATER. Prevent moisture contact. Store in tightly closed, properly vented container away from heat, sparks, open flame, strong oxidizers, radiation and other initiators. Protect against heat and light.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
acrylate oligomer/ monomer blend	N/est	N/est	N/est	N/est	N/est

ENGINEERING CONTROLS:

Maintain standard plant ventilation.

OTHER:

Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

RESPIRATORY PROTECTION:

No occupational exposure standards have been developed for the hazardous components of this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

EYE PROTECTION:

Eye protection such as chemical splash goggles and/or face shield must be worn when the possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

SKIN PROTECTION:

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Color:	Blue
Odor:	Mild
Solubility (in water):	Dispersible
pH Value:	4.0 - 5.0
Boiling Range/Point:	210.°F - 212.°F
Evaporation Rate:	Slower than n-Butyl Acetate
% Volatile:	63.%
Specific Gravity:	1.06
VOC:	< 0.5%

SECTION 10 - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

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CONDITIONS TO AVOID:

High temperature, inhibitor depletion, accidental impurities, exposure to sunlight, radiation or oxidizers may cause a spontaneous polymerizing reaction generating heat and pressure.

Contact Franklin International for further information.

INCOMPATIBILITY:

Heat, oxidizing conditions, ultraviolet radiation, inert gas blanketing, direct sunlight, strong oxidizers, free radical initiators, inert gas, localized heat source (as in a drum or band heater), freezing conditions, oxygen scavengers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Acrid smoke - fumes of carbon monoxide, carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

SECTION 11 - TOXICOLOGICAL INFORMATION

This information is not available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

This formulation has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Disposal of this product must comply with all applicable federal, state and local regulations.

CONTAINER DISPOSAL:

Disposal of this container should comply with all applicable federal, state and local regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number	None
UN Pack Group	N/A
UN Class	Nonhaz
ICAO/IATA Class	Nonhazardous
IMDG Class	Nonhazardous
Shipping Name	Nonhazardous

Packaging may not be approved for shipping by air. Please contact Franklin International for further information.

SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substances Control Act Inventory):

All components of this product are listed on the TSCA inventory except as exempted.

SECTION 16 - OTHER INFORMATION

DISCLAIMER:

While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.
