

Material Safety Data Sheet – KemFx “NeoFluor” Fluorescing Basecoats

Section 1: Identification

Manufacturer: Bayou Innovations, LLC (Owner: KemFx Brand)

Address: 7350 Bayou La Croix Rd
Bay St Louis, Ms 39520

Prepared by: Regulatory Compliance Coordinator

24/7 Emergency Phone: Call ChemTel at 1-800-255-3924 (contract# MIS0007444)

Product: NeoFluor Fluorescing Basecoats

D.O.T. Shipping Name: Paint, Flammable Liquids, UN 1263 or Limited Quantity Depending on Volume

Revision Date: May 10, 2012



Section 2: Hazardous Ingredients

| CODE | INGREDIENT | CAS# | ACGIH TLV (PPM) | OSHA PEL (PPM) | STEL (PPM) | FLASH POINT (TCC/F) | VAPOR PRESSURE (mm Hg) | EMERGENCY PLAN* |
|------|-----------------------------|--------------|-----------------|----------------|------------|---------------------|------------------------|-----------------|
| 5 | N-BUTYL ACETATE | 123-86-4 | 150 | 150 | 200 | 81 | 10 @ 20C | YES |
| 11 | XYLENES | 1330-20-7 | 100 | 100 | 150 | 77 | 9.5 @ 20C | YES |
| 14 | TOLUENE | 108-88-3 | 50 | 100 | 150 | 45 | 47 @ 20C | YES |
| 15 | ETHYL BENZENE | 100-41-4 | 100 | 100 | 150 | 64 | 7 @ 20C | YES |
| 18 | methyl n-amyl ketone | 110-43-0 | 50 | 100 | NE | 102 | 2.1 @ 20C | NO |
| 19 | ISOPROPANOL | 67-63-0 | 400 | 400 | 500 | 53 | 32 @ 20C | YES |
| 22 | 1-METHOXY-2PROPANOL ACETATE | 108-65-6 | NE | NE | NE | 114 (SETA) | 2.4 @ 20C | NO |
| 25 | METHYL ISOBUTYL KETONE | 108-10-1 | 50 | 50 | 75 | 60 | 16 @ 20C | YES |
| 27 | Aluminum Oxide | 1344-28-1 | 10 mg/m3 | 15 mg/m3 | NE | NA | NA | NO |
| 28 | Titanium Dioxide | 13463-67-7 | 10 mg/m3 | 15 mg/m3 | NE | NA | NA | NO |
| 30 | Amorphous Silica | 7631-86-9 | 10 mg/m3 | 80 mg/m3 | NE | NA | NA | NO |
| 31 | Tin Oxide | 18282-10-5 | 2 mg/m3 | 2 mg/m3 | NE | NA | NA | YES |
| 32 | Iron Oxide | 1309-28-1 | 5 mg/m3 | 10 mg/m3 | NE | NA | NA | YES |
| 34 | Weather Resistant Mixture | Trade Secret | NE | NE | NE | NA | NA | NO |
| 36 | ethyl-3-ethoxy propionate | 763-69-9 | NE | NE | 100 | 136 | 1.5 @ 20C | YES |
| 47 | carbon black | 1333-86-4 | 3.5 mg/m3 | 3.5 mg/m3 | 200 | NA | NA | NO |
| 48 | aluminum | 7429-90-5 | 10 mg/m3 | 15 mg/m3 | NA | NA | NA | NO |
| 49 | mica | 12001-26-2 | 3 mg/m3 | 3 mg/m3 | NA | NA | NA | NO |
| 50 | n-butanol | 71-36-3 | 20 | 100 | 25 | 84 | 4.2 mm HG @20C | YES |

*Where yes indicated this ingredient is subject to the reporting requirements of SARA 313 per 40 CFR 372

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Section 3: Hazards Identification

Potential Health Effects:

May cause nose and throat irritation. May cause nervous system depression resulting in headache, dizziness, nausea, difficulty in retaining balance, confusion, and potentially unconsciousness. Reports have associated repeated and prolonged exposure to solvents with permanent brain damage and nervous system damage.

Ingestion:

May result in gastrointestinal distress.

Skin or Eye Contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Items listed below and found in this product may also have the following effects:

2-propanol

Dermatitis and respiratory disease may be aggravated by exposure to this item.

Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

n-butyl acetate (Item 5)

May cause abnormal liver function. Medical conditions affecting the respiratory system may be aggravated by the ingredient. Rats exposed to this chemical at high airborne levels have exhibited high frequency hearing defects but the significance of this is unknown to man. Levels of this item that were toxic to the mother were also toxic to the fetus.

Xylene (Item 11)

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, and lungs.

Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heartbeats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

Toluene (Item 14)

People with preexisting disease of any of central nervous system, kidneys, liver, respiratory system, or skin has increased susceptibility to the effects of this material. This item can be absorbed through

the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown.

WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Ethyl benzene (item 15)

Acute exposure to ethyl benzene causes eye, skin, and mucous membrane irritation, with tearing of the eyes, irritation of the nose and upper respiratory tract, and redness and blistering of the skin. Symptoms of narcosis include fatigue, drowsiness, staggering gait, and incoordination. Chronic exposure to ethyl benzene causes fatigue, headache, and eye and upper respiratory tract irritation. Repeated contact with the skin may cause drying, defatting, and dermatitis [Genium 1992].

WARNING: This chemical is known to the State of California to cause cancer

Methyl ethyl ketone (Item 17)

Material is irritating to mucous membranes and upper respiratory tract. People with preexisting diseases of the central nervous system, eyes, respiratory system, or skin have increased susceptibility to the effects of this item. Prolonged or repeated overexposure may cause any of the following: conjunctivitis, dermatitis. High concentrations have caused embryo toxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

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1-methoxy-2-propanol acetate (item 22)

Tests in lab animals have shown effects on the kidneys, and/or liver. Recurrent overexposure may result in liver and kidney injury.

Methyl isobutyl ketone (item 25)

The following medical conditions may be aggravated by exposure: asthma, respiratory disease, eye disorders, pulmonary conditions, skin disorders. Repeated or prolonged skin contact may cause any of the following: dryness, cracking of the skin, defatting. Inhalation may cause any of the following: dizziness, stupor (central nervous system depression), drowsiness, respiratory tract irritation.

Section 4: First Aid Measure

Inhalation:

Move affected people to fresh air immediately. If not breathing give artificial respiration and contact emergency authorities. If symptoms persist or return later contact a physician immediately.

Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician or the poison control hotline immediately and have a lot of all ingredients ready.

Skin or Eye Contact:

In case of eye contact immediately flush with copious amounts of water or a designated eye wash solution for at least 15 minutes and call a physician. If skin contact occurs wash the affected area thoroughly with soap and water. If irritation persists contact a physician.

Section 5: Fire Fighting Measures

Flash Point: Between 75F and 100F

Flammability Limits: Lower Flammability Limit – 0%
Upper Flammability Limit – 19%

Extinguishing Media: Foam, carbon dioxide (CO₂), and/or dry chemical

Fire Fighting Procedures: Full protective equipment equipped with a self contained fresh air breathing apparatus is recommended. Use water from fog nozzles to cool closed containers of these items.

Fire and Explosion Hazards:

When this product is exposed to air above its flash point vapors may be present and levels sufficient enough to burn or explode given a proper ignition source. Spray mists of this product may be flammable even below its flash point. Furthermore, closed containers of this product exposed to elevated temperatures may be sensitive to rapid release of pressure on opening or rupture of its container. Use caution when working in areas where containers may appear to be bulging or in areas where the temperature of closed containers exceed 120^oF.

Section 6: Accidental Release Measures

Procedures for cleaning up spills or leaks:

Evacuate non-emergency personnel and isolate the area immediately. Ventilate area and remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Emergency personnel must be outfitted with eye protection, chemical resistant gloves, protective clothing, and the proper respirator for the material released. If material does not contain or is not mixed with an isocyanate activator or hardener wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C). If the material contains, is mixed with an isocyanate activator or hardener, or the contents are unknown wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C). Take measures to confine release then cover affected area with dry absorbent. Then, releases containing isocyanate, should be saturated with a solution comprised of 90% water, 5% ammonia solution, and 5% liquid detergent solution and allowed to stand for 15 minutes. Once material has been gathered do not seal container for at least 48 hours to allow CO₂ generated from neutralization to escape. Do not allow material to enter drains or touch soil at any point. Dispose of material according to local regulations.

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SECTION 7. Handling and Storage

Precautions to be taken in handling:

VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE. KEEP PRODUCT AND VAPORS AWAY FROM ANY POTENTIAL OR KNOWN IGNITION SOURCES INCLUDING POSSIBLE STATIC DISCHARGE SOURCES. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Bond/Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. When transferring to another container make sure container is properly labeled to identify the hazards of the product. KEEP AWAY FROM CHILDREN.

Other precautions:

If material has dried to a solid form such as its final form of a coating do not sand, abrasive blast, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, protective eye wear, and gloves.

SECTION 8. Personal Protection

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Respiratory protection:

Do not breathe vapors or mists. A properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) must be used at a minimum. Follow respirator manufacturer’s directions for respirator use. Do not permit anyone without protection in any area where spray mists or vapor exists.

Eye protection:

Goggles are preferred while handling product to prevent splashes into the eyes or vapors and spray mists from irritating the eyes. If safety glasses are substituted include splash guards or side shields.

Skin and body protection:

Chemical resistant gloves and coveralls are recommended when handling or spraying this material.

Section 9: Physical Data

| | | | |
|----------------------|----------------------------|----------------------|------------------|
| Evaporation Rate: | Slower than ether | Vapor Density: | Heavier than air |
| Solubility in water: | none to slight | Volatiles by Volume: | 100% |
| Boiling Range: | 134 – 350°F | volatiles by weight | 100% |
| Density: | 7-15 lbs/gallon | Specific Gravity: | .72-1.8 |
| VOC: | See section 11 for details | | |

Section 10: Stability and Reactivity

Stability

When stored in sealed original containers under normal storage conditions properly no known instabilities exist.

Sensitivity to Static Discharge

Products used above their flash point or spray mist from products are sensitive to static ignition sources and could explode in the presence of a static spark. Bonding and grounding should be used when transferring material.

Incompatibility (Materials to avoid): None reasonably foreseeable.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Smoke, and other harmful gases may be liberated on combustion.

Hazardous Polymerization: Will not occur.

Sensitivity to Mechanical Impact: None Known

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Section 11: Product List

| PRODUCT CODE | HAZARDOUS INGREDIENTS (WT%) | FLASH POINT (SCC/F) | HMIS H-F-R | OSHA FLAMM. CLASS | D.O.T PACKING GROUP | REGULATORY VOC (LBS/GAL) | PHOTO-CHEMICAL REACTIVITY | NOTES |
|---------------------------------------|--|---------------------|------------|-------------------|---------------------|--------------------------|---------------------------|-------|
| Codes Beginning with "SGCB" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 47) 1-5% 50) 1-5%, 15) <1%, proprietary unleaded pigments | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| All Other codes beginning with "SGC" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 50) 1-5%, 15) <1%, proprietary unleaded pigments | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| Codes Beginning with "MGCB" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 47) 1-5% 48) 1-15%, 50) 1-5%, 15) <1%, proprietary unleaded pigments | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| All other codes Beginning with " MGC" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 48) 1-15%, 50) 1-5%, 15) <1%, proprietary unleaded pigments | 73F - 100F | 2-3-1 | IC | III | 6.0 or less | Yes | A, B |
| Codes Beginning with " PGCB" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 47) 1-5% 49) 1-15%, 19) 1-10%, 50) 1-5%, 15) <1%, proprietary unleaded pigments | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| All other codes Beginning with " PGC" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 49) 1-15%, 19) 1-10%, 50) 1-5%, 15) <1%, proprietary unleaded pigments | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| Codes Beginning with "KF" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 47) 1-15%, 19) 1-10%, 50) 1-5%, 15) <1%, proprietary color variable pigment treatment | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| Codes Beginning with "NF" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 19) 1-10%, 50) 1-5%, 15) <1%, proprietary daylight fluorescing pigment | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |
| Codes beginning with "EKB" | 5) 20-30%, 18) 20-30%, 11) 10-15%, 25)10-15%, 22) 5-15%, 14) 1-5%, 19) 1-10%, 50) 1-5%, 15) <1%, proprietary unleaded pigment and or dye | 73F - 100F | 2-3-0 | IC | III | 6.0 or less | Yes | A, B |

* - See section 2 and 3 for specific ingredient information and hazards.

A – Contains a chemical(s) subject to the reporting requirements of section 313 of the emergency planning and right to know act of 1986 and of 40 CFR 372

B – This product contains a chemicals known to the state of California to cause cancer and reproductive harm

Section 12: Regulatory List

TSCA Compliance: All components in these products are either listed on the TSCA inventory or are exempt from listing.

Canadian DSL: All components in these products are either listed on the Canadian DSL or below the threshold for registration.

Section 13. Other Information

Acronyms and General Definitions:

ACGIH – American Conference of Governmental Industrial Hygienist
ANSI – American National Standards Institute
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
CFR – Code of Federal Regulations
DOT – Department of Transportation
OSHA – Occupational Safety and Health Administration
IARC – International Agency for Research on Cancer
NIOSH – National Institute of Occupational Safety and Health
NTP – National Toxicology Program
IATA – International Air Transport Association
IMO – International Maritime Organization;
PEL – Permissible Exposure Limit
STEL – Short Term Exposure Limit
TLV – Threshold Limit Value
TWA – Time Weighted Average
TCC – Tag Closed Cup
VOC – Volatile Organic Content
HAPS – Hazardous Air Polluting Solvents;
mg/m³ – milligrams per cubic meter;
mm – millimeters;
PPM – parts per million;
PPT – parts per thousand;
SARA – Superfund Amendments and Reauthorization Act
SCC – Seta Closed Cup Flashpoint