

# MATERIAL SAFETY DATA SHEET

MSDS NO. 8

June 17, 2001



## INTENSIFIERS

### SECTION I - MANUFACTURER

**Manufacturer:**

House of Kolor  
210 Crosby Street  
Picayune, Mississippi 39466

**Telephone:**

Medical Emergency (888) 345-5732  
Transportation Emergency (888) 748-5558  
Product Information (601) 798-4731

**Prepared by:** Tim Herrington

**Product:** Intensifiers

**OSHA Hazard Class:** Flammable Liquid

**DOT Shipping Name:** Paint Related Material, UN1263

**Hazardous Material Information:** See Section X

### SECTION II - HAZARDOUS INGREDIENTS

(See SECTION X)

Ingredients	CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limit (TLV)
1. 1-methyl-2-pyrrolidone	872-50-4	0.3	None-A,O 100 ppm-V
2. Acrylic resin	Not Available	None	None-A,O
3. Anthraquinone pigment	81-77-6	None	None-A,O
4. Cyclohexanone	108-94-1	4.3 @ 77°F	25 ppm-A 25 ppm-O skin
5. Ethylbenzene*	100-41-4	8.5	100 ppm-A,O
6. Isobornyl Methacrylate	7534-94-3		
7. Isoindolinone pigment A	106276-80-6	None	None-A, O
8. Methyl ethyl ketone	78-93-3	82.5 @ 23.9°C	200 ppm-A 300 ppm-A 15 min (STEL)
9. Methyl isobutyl ketone	108-10-1	15.0	50 ppm-A 100 ppm-O 75 ppm-A 15 min (STEL)
10.N-butyl acetate	123-86-4	8.4	150 ppm-A,O 200 ppm-A,O 15 min (STEL)
11.N-methylpyrrolidone	872-50-4	0.3	None-A,O 100 ppm-V
12.Toluene [65]	108-88-3	36.7	100 ppm-A 200 ppm-O 300 ppm-O Ceiling

\* = See Section V - Special effects

Ingredients	CAS No.	Vapor Pressure (20°C. mm Hg)	Exposure Limit (TLV)
13.Urea/aldehyde resin			
14.Xylene	1330-20-7	25.0 @25°C	100 ppm-A,O 150 ppm-A,O 15 min (STEL)

A = ACGIH TLV; O = OSHA; S = Supplier furnished limit; STEL = Short term exposure limit; C = Ceiling; V = Valspar limit, TLV = Threshold Limit Value  
\* = See Section V - Special effects

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

**BOILING RANGE:** 175 TO 275°F  
**SPECIFIC GRAVITY:** (H2O=1): 0.9 - 1.00  
**VAPOR DENSITY:** Heavy Than Air  
**EVAPORATION RATE:** Slower Than Ether  
**COATING V.O.C.:** 4.88-4.98 lb/gal  
**MATERIAL V.O.C.:** 4.88-4.98 lb/gal  
**SOLUBILITY IN WATER:** 0.5%  
**APPEARANCE AND ODOR:** Liquid paint with a characteristic odor.

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** See Section X **METHOD USED:** T.C.C.  
**FLAMMABLE LIMITS IN AIR BY VOLUME:**  
**LOWER EXPLOSIVE LIMIT (LEL):** 1.0%  
**UPPER EXPLOSIVE LIMIT (UEL):** 11.5%  
**EXTINGUISHED MEDIA:** Foam, CO<sub>2</sub>, or Dry Chemical  
**SPECIAL FIREFIGHTING PROCEDURES:**  
Cool fire exposed containers with water. Do not enter confined fire space without proper protective equipment – including a NIOSH approved self-contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
Solvent vapors can travel to an ignition source and flash back. Explosive mixture can form with air.

### SECTION V - PHYSICAL/CHEMICAL CHARACTERISTICS

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**  
Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea, and loss of consciousness.  
**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Can cause defatting and drying of skin resulting in irritation and dermatitis. Irritating to eyes. Irritating to mucous membranes.  
**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Can be absorbed through the skin causing effects similar to inhalation and ingestion.  
**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Liq-

uid ingesting may result in vomiting. Aspiration of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage.

#### **HEALTH HAZARDS (ACUTE AND CHRONIC):**

**ACUTE:** Shortness of breath, burning sensation of respiratory passages, nausea, headache, and increased proneness to accident.

**CHRONIC:** Narcosis, kidney, and liver dysfunction with possible central nervous system effects.

#### **CARCINOGENICITY:**

**NTP CARCINOGEN?** No

**IARC MONOGRAPHS?** No

**OSHA REGULATED?** No

Except for Ethylbenzene\*

**CALIFORNIA PROPOSITION 65 STATEMENT:** Check Section II of this MSDS for hazardous ingredients whose name contains the character [65]. These ingredients are listed or have trace components that are listed in California Prop 65 lists.

#### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY**

**EXPOSURE:** Allergies, respiratory problems, asthma, and dermatitis.

#### **EMERGENCY AND FIRST AID PROCEDURES:**

**FOR EYES:** Flush with plenty of clean flowing water for at least 15 minutes and get medical attention.

**FOR SKIN:** Wash affected areas with plenty of warm soapy water. Remove contaminated clothing and shoes. If irritation persists, get medical attention.

**INHALATION:** Move victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

**INGESTION:** Consult a physician immediately. Product contains both naphthas and oxygenated solvents. See section II.

#### **SPECIAL EFFECTS:**

**Ethylbenzene\*** - Tests by the NTP have shown that Ethylbenzene\* is a carcinogen in animals. The relevance to humans is unknown. **N-butyl acetate** - May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. **Methyl ethyl ketone** - High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e. shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. **Toluene** - 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 reproductive harm. **Xylene** - High concentrations have caused embryotoxic effects in laboratory animals. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts.

## **SECTION VI - REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Keep away from excessive heat or open flame. Store below maximum storage temperature.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid strong alkalis. Oxidizing materials can cause a reaction.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:** Carbon dioxide, carbon monoxide, and unidentified organics.

**HAZARDOUS POLYMERIZATION:** Will not occur

## **SECTION VII - PRECAUTIONS FOR SAFE HANDLING**

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR**

**SPILLED:** Eliminate potential sources of ignition. Wear respirator and other protective clothing. For large spills dike and contain. Soak up residue with non-combustible absorbent. Keep out of surface waterways and sewers. Flush area with water to remove trace residue.

**WASTE DISPOSAL METHOD:** Remove with vacuum truck into storage/salvage vessel. Keep out of surface waters and any watercourses or sewers entering or leading to surface water. Dispose of in an appropriate disposal facility in compliance with local regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep

container closed. Do not store near heat, sparks, flame, or oxidizing materials. Vapors are heavier than air and will collect in low places. Ground all containers when transferring liquid. Use non-sparking tools. Wash thoroughly after handling and before eating or smoking. Do not store above 120 degrees F. Observe label precautions.

**OTHER CAUTIONS:** Avoid breathing sanding dust. Prevent prolonged or repeated breathing of vapor or spray mist. Store only in well ventilated areas.

## **SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Use NIOSH approved respirator if chance of overexposure. Use MSHA/NIOSH TC19C for spray booth spraying or confined area. Use MSHA/NIOSH TC23C for outdoor spraying or well-ventilated areas.

**VENTILATION:** Use explosion proof ventilation to maintain vapor concentrations below the TLV. See section II.

**PROTECTIVE GLOVES:** Wear protective gloves to minimized skin contact.

**EYE PROTECTION:** Wear safety glasses with side shields, goggles, face shield, or other protective eyewear to avoid eye contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear protective clothing to minimize skin contact.

**WORK/HYGIENIC PRACTICES:** Keep respirators in proper working condition. Follow general industrial hygienic practices.

## **SECTION IX - DISCLAIMER**

**DISCLAIMER:** The recommendations provided herein are based on information believed to be accurate. None of the information stated is to be construed as any warranty. These products are intended for industry use only and should be used by professionals who have carefully evaluated this product.

## **SECTION X - OTHER INFORMATION**

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

#### **PRODUCT CODE                      INGREDIENTS (See Section II)**

**KK-01, KK-02, KK-04, KK-07, KK-09, KK-11, KK-12, KK-14 Thru KK-16, KK-19, KK-20** -Methyl ethyl ketone (43.8%), **Acrylic resin**, N-butyl acetate, **Antraquinone**, **Urea/aldehyde resin**, **Substituted isoindolinone**, Xylene (1.2%), Toluene (0.3%) [65], Ethylbenzene\* (0.2%), GAL WT: 7.41-8.65 WT PCT SOLIDS: 32.6-43.00 VOL. PCT SOLIDS: 27.5-35.40 VOC: 4.98 LB/GL H: 2 F: 3 R: 0 FLASH POINT: 25°F

**KK-03, KK-05, KK-06, KK-10, KK-13** - Methyl ethyl ketone (37.9%), **Acrylic resin**, N-butyl acetate, Cyclohexanone, **Isobornyl methacrylate**, Toluene (0.3%) [65], GAL WT: 7.56-7.75 WT PCT SOLIDS: 29.8-33.1 VOL. PCT SOLIDS: 25.3-28.6 VOC: 5.33 LB/GL H: 2 F: 3 R: 0 FLASH POINT: 25°F

**KK-17** - N-butyl acetate, **Acrylic resin**, **Antraquinone**, Urea/aldehyde resin, **Xylene (%)**, Ethylbenzene\* (%), Toluene (%) [65], GAL WT: 7.64 WT PCT SOLIDS: 38.6 VOL. PCT SOLIDS: 31.6 VOC: 4.68 LB/GL H: 2 F: 3 R: 0 FLASH POINT: 25°F

**KK-18** - **Acrylic resin**, Methyl ethyl ketone (26.3%), N-butyl acetate, 1-methyl-2-pyrrolidone, GAL WT: 7.64 WT PCT SOLIDS: 38.6 VOL. PCT SOLIDS: 31.6 VOC: 4.68 LB/GL H: 2 F: 3 R: 0 FLASH POINT: 25°F

\* = See Section V - Special effects