

# SAFETY DATA SHEET

Alkyd Enamel

## 1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

PRODUCT NAME: **Randolph Alkyd Enamel Base and Colors**  
PRODUCT NUMBER: 23-EN  
SUPPLIER: Consolidated Aircraft Coatings  
P.O. Box 3129, Riverside, CA 92519, USA  
4343 Fort Drive, Riverside, CA 92509, USA  
(951) 684-4280  
(951) 809-7144  
(760) 782-1947  
EMERGENCY TELEPHONE: (800) 424-9300 (Chemtrec- US)  
(703) 527-3887 (International – Call Collect)

## 2 - HAZARDS IDENTIFICATION

### GHS Hazard Category

Flammable liquid- Category 2  
Eye Irritation - Category 2A  
Skin Irritation- Category 2  
Respiratory Irritation- Category 3  
Specific target organ toxicity (single exposure) – Category 3, Central Nervous System H336

### Label Elements

#### Pictograms



#### Signal Word

**DANGER**

#### Hazard Statements

**Highly flammable. Irritating to eyes and skin**  
**May cause drowsiness or dizziness**  
**Harmful: danger of serious damage to health by prolonged exposure through inhalation**  
**Possible risk of harm to the unborn child**  
**Harmful: may cause lung damage if swallowed**

#### Precautionary Statements



**WARNING: This product can expose you to chemicals including Ethyl benzene, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Store in a well-ventilated place. Keep container tightly closed. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area.  
Vapors may cause drowsiness and dizziness.

#### Response

##### INHALATION:

Move the victim to a fresh air place immediately. Get medical attention if discomforts persist.

##### INGESTION:

Rinse mouth with clean water immediately. DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep the victim's head low so that vomits from the stomach will not enter the lungs.

**SKIN CONTACT:**

Remove contaminated clothing and flush the affected skin areas with clean water for at least 15 minutes. Get medical attention if discomforts persist.

**EYES CONTACT:**

Make sure all contact lenses are removed before flushing the eyes with eye lids open with clean water for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

**Storage**

Store in a well-ventilated Place. Keep container tightly closed. Keep cool. Store in a locked cabinet, cage or room.

**Disposal**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Flammable liquid and vapor.** Causes eye, skin, and respiratory tract irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. May be harmful if absorbed through skin or if inhaled. May cause central nervous system depression.

**Target Organs:**

Central nervous system, respiratory system, eyes, skin.

CLASSIFICATION (1999/45) Xn, F, T, R10, R20/21, R36/38

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**3 – COMPOSITION /INFORMATION ON INGREDIENTS**

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Xylene	215-535-7	1330-20-7	21-51%	XN, R10, R20/21, R36/38, S25
Ethylbenzene	202-849-4	100-41-4	10-40%	R11, R20, S16, S24/25, S29
VM&P Naphtha	232-443-2	8030-30-6	5-35%	Xn, F, R10, R20/21, R38, S9, S16, S23, S24/25, S29, S33

The Full Text for all R-Phrases and S-Phrases is displayed in Section 15

**COMPOSITION COMMENTS**

May contain up to 0.6 % Octoates or Napthenates of Cobalt, Zinc, Calcium, Zirconium and Manganese.

The data shown are in accordance with the latest EC Directives

**4- FIRST AID MEASURES****INHALATION:**

Move the victim to a fresh air place immediately. Get medical attention if discomforts persist.

**INGESTION:**

Rinse mouth with clean water immediately. DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep the victim's head low so that vomits from the stomach will not enter the lungs.

**SKIN CONTACT:**

Remove contaminated clothing and flush the affected skin areas with clean water for at least 15 minutes. Get medical attention if discomfort persists.

**EYES CONTACT:**

Make sure all contact lenses are removed before flushing the eyes with eye lids open with clean water for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

**5- FIRE FIGHTING PROCEDURES****EXTINGUISHING MEDIA:**

Fire can be extinguished by using Foam, carbon dioxide, or dry powder Dry Chemicals, sand, dolomite, etc...

**SPECIAL FIREFIGHTING PROCEDURES:**

Do not use a direct stream of water. Product may float and can be reignited on the surface of the water. Do not enter a confined area without full bunker gear including a positive-pressure NIOSH-approved self-contained breathing apparatus. Decomposition products may form toxic materials.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Never use welding or cutting torch on or near drum (even empty) because residue or product can ignite explosively. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, flames and other ignition sources at locations distant from the material handling point. Flammable material.

## 6-ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Wear protective clothing as described in Section 8.

### ENVIRONMENTAL PRECAUTIONS:

Spillages or uncontrolled discharges into watercourses must immediately be alerted to Environmental Agency or other appropriate regulatory authority.

### SPILL CLEANUP METHODS:

Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, open flames, and smoking. Ventilate. Absorb in vermiculite, dry sand, or earth and place into containers for disposal.

## 7-HANDLING AND STORAGE

### USAGE PRECAUTIONS:

Keep away from heat, sparks and open flames. Avoid spilling, skin and eyes contact. Use with adequate ventilation and avoid excessive exposure to solvent vapors. Use approved respirator if air contamination exceeds the accepted level.

### STORAGE PRECAUTIONS:

FLAMMABLE/Combustible. Keep away from oxidizers, open flames and other ignition sources. Keep unused contents in original container and tightly closed lids. Store in a cool, dry and well-ventilated place and at an ambient Temperature not to exceeding above 120° F.

### STORAGE CLASS:

FLAMMABLE liquid storage.

## 8-EXPOSURE CONTROL/PERSONAL PROTECTION

Name	Workplace Exposure Limits	Remarks
Xylene	ACGIH: TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. OSHA: TWA: 100 ppm 8 hrs.	Consult local authorities for acceptable exposure limits.
Ethylbenzene	ACGIH: TWA: 100 ppm 8 hours. STEL: 125 ppm 15 minutes. OSHA: TWA: 100 ppm 8 hrs.	Same As Above
VM&P Naphtha	ACGIH: TWA: 400 (ppm), STEL: 300 ppm, OSHA: TWA: 100 ppm	Same As Above



### PROTECTIVE EQUIPMENTS:

### PROCESS CONDITIONS:

### ENGINEERING MEASURES:

### RESPIRATORY EQUIPMENT:

### HANDPROTECTION:

### EYE PROTECTION:

### OTHER PROTECTION:

### HYGIENE MEASURES:

Provide eyewash station.

Provide adequate ventilation. Fully equipped spray booth is recommended to ensure the workers legal exposure limits are not exceeded.

Wear respirator with appropriate cartridge for organic solvents and chemicals.

Wear approved gloves such as Neoprene, Nitrile or Rubber types.

Wear splash-proof goggles.

Wear appropriate clothing to prevent any possible skin contact.

DO NOT SMOKE IN THE WORK AREA. Wash at the end of each work shift and before eating, drinking or smoking. Promptly remove contaminated clothing.

## 9- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Opaque Liquid
COLOR:	Several colors
ODOR:	Aromatic solvents
BOILING POINT:	244 - 290°F
RELATIVE DENSITY:	0.970 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	44°F (Closed Cup)
FLAMMABILITY LIMITS:	N.D. (Lower%)

SOLUBILITY VALUE  
(g/100g H<sub>2</sub>O @ 20°C): Insoluble  
VOLATILE ORGANIC COMPOUND  
(VOC): 849 g/L

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## 10- STABILITY AND REACTIVITY

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### STABILITY:

Stable

### CONDITIONS TO AVOID:

Heat and fires. Ignition sources.

### INCOMPATIBILITY (MATERIALS TO AVOID):

Strong alkalines or strong oxidizers. This material may dissolve some plastics, rubber compounds or coatings. May react strongly with acids while in liquid form.

### HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Hydrogen chloride and very small amounts of phosgene and chlorine.

### HAZARDOUS POLYMERIZATION:

N/A

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## 11-TOXICOLOGICAL INFORMATION

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**Xylene (CAS#1330-20-7):** LD50/LC50: Draize test, rabbit, eye: 87 mg Mild; Draize test, rabbit, eye: 5 mg/24H Severe; Draize test, rabbit, skin: 100% Moderate; Draize test, rabbit, skin: 500 mg/24H Moderate; Inhalation, rat: LC50 = 5000 ppm/4H; Oral, mouse: LD50 = 2119 mg/kg; Oral, rat: LD50 = 4300 mg/kg; Skin, rabbit: LD50 = >1700 mg/kg; Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: 175 workers were exposed to 21 ppm of xylene for 7 years. Subjective symptoms such as anxiety, forgetfulness, inability to concentrate and dizziness were reported. Xylenes accounted for >70% of the total exposure. Liver & kidney effects were not reported. Teratogenicity: No increased incidence of birth defects was reported in a study of lab workers exposed to xylene during early pregnancy. Exposure to other solvents and chemicals also occurred. An increased incidence of spontaneous abortions was reported. Animal information suggests that xylene is not teratogenic or embryotoxic at exposure levels that are not harmful to the mother. Reproductive Effects: An increase in menstrual disorders has been reported in women exposed to organic solvents such as benzene, toluene, and xylenes. It is not possible to attribute these effects to xylenes in particular. Mutagenicity: Xylene does not appear to be a mutagen. Neurotoxicity: Xylene may be ototoxic (damages hearing or enhances sensitivity to noise) in chronic occupational exposures, probably from a neurotoxic mechanism

**Ethyl Benzene (CAS#100-41-4):** Acute Dermal LD50 Rabbit: 17800 mg/kg, Acute Oral LD50 Rat: 3500 mg/kg. Carcinogenicity: ACGIH- A3 Confirmed animal carcinogen with unknown relevance to humans. IARC Monographs: 2B Possibly carcinogenic to humans. Skin corrosion/irritation: Causes skin irritation. Epidemiology: No epidemiological data is available for this product. Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Neurological effects: High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches. Central and/or peripheral nervous system damage. Reproductive effects Contains no ingredient listed as toxic to reproduction. Teratogenicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

**VM&P Naphtha (CAS# 8030-30-6) : Routes of Entry:** Absorbed through skin. Eye contact. Inhalation. Ingestion. **Toxicity to Animals:** WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 5 mg/kg [ Rat]. Acute dermal toxicity (LD50): 3 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 3400 4 hours [Rat]. **Chronic Effects on Humans:** Causes damage to the following organs: skin, eyes, central nervous system (CNS). May cause damage to the following organs: blood, kidneys, lungs, the nervous system, mucous membranes, peripheral nervous system, gastrointestinal tract, upper respiratory tract, ears. **Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). **Special Remarks on Toxicity to Animals:** Not available. **Special Remarks on Chronic Effects on Humans:** Not available. **Special Remarks on other Toxic Effects on Humans:** Moderately toxic and narcotic in high concentrations.

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## 12-ECOLOGICAL INFORMATION

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**Xylene (CAS# 1330-20-7):** Ecotoxicity: Fish: Rainbow trout: LC50 = 13.5 mg/L; 96 Hr; Unspecified Fish: Goldfish: LD50 = 13 mg/L; 24 Hr; Unspecified Fish: Fathead Minnow: LC50 = 46 mg/L; 1 Hr; Static bioassay Acute and long-term toxicity to fish and invertebrates: LD50 for goldfish is 13 mg/L/24 Hr. Cas#1330-20-7: LC50(96Hr.) rainbow trout = 8.05 mg/L, Static condition; LC50(96Hr.) fathead minnow = 16.1 mg/L, flow-through conditions; LC50(96Hr.) bluegill = 16.1 mg/L, flow-through; EC50 (48 Hr.) water flea = 3.82 mg/L, flow-through conditions; EC50(24 Hr.) photo bacterium phosphoreum = 0.0084 mg/L, Microtox test.

Environmental: In air, xylenes degrade by reacting with photo chemically produced hydroxyl radicals. In soil it will volatilize and leach into groundwater. Little bioconcentration is expected.

Physical: ATMOSPHERIC FATE: According to a model of gas/particle partitioning of semi volatile organic compounds in the atmosphere, xylene, which has an experimental vapor pressure of 7.99 mm Hg at 25 deg C, will exist solely as a vapor in the ambient atmosphere. Vapor-phase xylene is degraded in the atmosphere by reaction with photo chemically-produced hydroxyl radicals; the atmospheric lifetime of xylene is about 14-26 hours. Ambient levels of xylene are detected in the atmosphere due to large emissions of this compound.

**Ethyl Benzene (CAS#100-41-4):** EC50 Water flea (Daphnia magna): 1.37 mg/l 48.00 hours. LC50 Rainbow trout, Donaldson trout (Oncorhynchus mykiss): 4.2 mg/l 96.00 hours. Ecotoxicity: Toxic to aquatic life. Environmental effects: Bioaccumulation is unlikely to be significant because of the low water solubility of this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**VM&P Naphtha (CAS# 8030-30-6):** Ecotoxicity: Not available. **BOD5 and COD:** Not available. **Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic. **Special Remarks on the Products of Biodegradation:** Not available.

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### 13 – DISPOSAL CONSIDERATIONS

Hazardous wastes should be sent to a RCRA approved incinerator or disposed of in a RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

**I certify that all chemicals in this shipment comply with all applicable rules or orders under TSCA and that I am not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.**

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### 14 – TRANSPORT INFORMATION

#### DOT / ADR / RID Classification:

DOT PROPER SHIPPING NAME: PAINT  
PRIMARY HAZARD CLASS/DIVISION: 3  
UN/UA NUMBER: 1263  
PACKING GROUP: II

#### IMDG and ADN Classification:

IMDG PROPER SHIPPING NAME: PAINT  
IMDG UN CLASS: 3  
IMDG UN NUMBER: 1263  
IMDG PACKING GROUP: II  
IMDG LABEL: FLAMMABLE LIQUID  
IMDG VESSEL STOWAGE: B

Air shipping this product is not advised and if done must be handled by a certified carrier according to IATA rules.



GHS LABEL:

#### DANGER

**HIGHLY FLAMMABLE LIQUID AND VAPOR. VAPOR HARMFUL. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS. TOXIC TO AQUATIC LIFE.**

Refer to MSDS for additional information on safe handling / use. - Keep out of reach of children. For Industrial Use Only.

**Contains:** Xylene, Ethyl benzene, and VM&P Naphtha. This product contains one or more chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

**Hazards:** H225: Highly flammable liquid and vapor. H361: Suspected of damaging fertility or the unborn child. H315: Causes skin irritation. H335: May cause respiratory irritation. H312+H332: Harmful in contact with skin or if inhaled. H373: May cause damage to organs through prolonged or repeated exposure: Inhalation - neuropsychological effects, auditory dysfunction and effects on colour vision. H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):** P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye

protection/face protection. P260: Do not breathe mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.

**First Aid:** **Inhalation** - Move person to fresh air. If symptoms occur obtain medical attention. **Skin Contact** - Wash affected skin with soap and water. If symptoms occur obtain medical attention. **Eye Contact** - If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms occur obtain medical attention. **Ingestion** - Do not induce vomiting. Drink one glass of water. If symptoms occur obtain medical attention.

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#### 15-REGULATORY INFORMATION

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**Hazards:** H225: Highly flammable liquid and vapor. H361: Suspected of damaging fertility or the unborn child. H315: Causes skin irritation. H335: May cause respiratory irritation. H312+H332: Harmful in contact with skin or if inhaled. H373: May cause damage to organs through prolonged or repeated exposure: Inhalation - neuropsychological effects, auditory dysfunction and effects on color vision. H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):** P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection. P260: Do not breathe mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.

#### CODES:



Xi and XN



F



T

Xi=Irritant  
XN=Harmful  
F=Highly Flammable  
T= Toxic

#### R-Phrases:

R10: Flammable  
R11: Highly Flammable  
R20: Harmful by inhalation  
R20/21: Harmful by inhalation and in contact with skin  
R36/38: Irritating to eyes and skin  
R38: Irritating to skin

#### S-Phrases:

S9: Keep container in a well-ventilated place  
S16: Keep away from sources of ignition - No smoking  
S23: Do not breathe gas/fumes/vapor/spray  
S24/25: Avoid contact with skin and eyes  
S25: Avoid contact with eyes  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S29: Do not empty into drains  
S33: Take precautionary measures against static discharges

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#### 16- DISCLAIMER

Above information is based on data supplied to us and is believed to be correct. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. It is the user's obligation to determine the safe use of it.

