

SAFETY DATA SHEET

Randolph Epoxy Varnish Catalyst

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

PRODUCT NAME:	Randolph Epoxy Varnish Catalyst
PRODUCT NUMBER:	20-410 EV-410
RECOMMENDED USE:	Aircraft Coatings and thinners
RESTRICTIONS ON USE:	Not applicable
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 1
Skin Irritation- Category 2
Respiratory Irritation- Category 4
Specific target organ toxicity (single exposure) – Category 3, Central Nervous System H336

Label Elements


Pictograms



Signal Word

DANGER

Hazard Statements

 **WARNING:** This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

Highly flammable. Irritating to eyes and skin

May cause drowsiness or dizziness

Harmful: danger of serious damage to health by prolonged exposure through inhalation

Harmful: may cause lung damage if swallowed

Precautionary Statements

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.

CLASSIFICATION : H225, H315, H318, H317, H336, H302, H312, H332

3 – COMPOSITION /INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content %	GHS Classification
Polyamide	Not Available	68410-23-1	50-60%	Skin Corr./Irrit.(Cat. 2), H315 Eye Dam./Irrit. (Cat. 1), H318 Skin Sens. (Cat. 1A), H317 Aquatic Acute (Cat. 2), H401 Aquatic Chronic (Cat. 2) , H411
Methyl Ethyl Ketone	201-159-0	78-93-3	10-20%	Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
1-Propanol	200-746-9	71-23-8	10-20%	Flammable liquids (Category 2), H225 Serious eye damage (Category 1), H318 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Glycol Ether EB	203-905-0	111-76-2	10-20%	Flammable liquids (Category 4), H227 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319
Isopropyl Alcohol	200-661-7	67-63-0	10-20%	Highly flammable liquid and vapour (Cat. 2A), H225 Causes serious eye irritation (Cat. 2A), H319 May cause drowsiness or dizziness (Cat. 3), H336

The Full Text for all H-Statements is displayed in Section 15

COMPOSITION COMMENTS

The data shown are in accordance with the latest EC Directives

** Two Opti-color colorants contain lead pigments: CY Medium Chrome Yellow and MO Molybdate Orange. One colorant, TW Titanium White, contains silica. When any of these three colorants are used:

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

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 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.

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

CO₂, Dry chemical, Foam, Water fog

SPECIAL FIREFIGHTING PROCEDURES:

Do not use a direct stream of water. Product may float and can be re-ignited 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
Methyl Ethyl Ketone	ACGIH: 200ppm TWA; 300ppm STEL NIOSH: 200ppm TWA; 590 mg/m ³ TWA; 3000ppm IDLH OSHA –Final PELs: 200ppm TWA; 590 mg/m ³ TWA	Consult local authorities for acceptable exposure limits.
1-Propanol	ACGIH: 100ppm TWA NIOSH: 200 ppm TWA; 500 mg/m ³ TWA 800 ppm IDLH OSHA-Final PELs: 200 ppm TWA; 500 mg/m ³ TWA	Same As Above

Glycol Ether EB	ACGIH: 20ppm TWA NIOSH: 5 ppm TWA; 24 mg/m ³ TWA 700 ppm IDLH OSHA-Final PELs: 50 ppm TWA; 240 mg/m ³ TWA	Same As Above
Isopropyl Alcohol	ACGIH: 200 ppm TWA; 400 ppm STEL NIOSH: 400 ppm TWA; 980 mg/m ³ TWA 2000 ppm IDLH (10% LEL) OSHA-Final PELs: 400 ppm TWA; 980 mg/m ³ TWA	Same As Above
Polyamide	ACGIH: Not Established NIOSH: Not Established OSHA-Final PELs: Not Established	Same As Above

NOTICE:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Breathing the vapor may irritate the nose and throat. Central nervous system effects including excitation, euphoria, contracted eye pupil, dizziness, blurred vision, fatigue, nausea, headache, loss of consciousness, respiratory arrest and sudden death could occur as a result of long term and/or high concentration exposure to vapors.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Contact with the skin or eyes may cause irritation. Flush skin and eyes with water for at least 15 minutes. Prolonged or repeated contact can cause moderate irritation, defatting, and/or dermatitis.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE:

This product may aggravate preexisting eye, skin, heart, central nervous system and respiratory disorders.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Overexposure may cause anesthesia, headache, nausea or dizziness. Breathing the vapors may irritate the nose and throat. Detectable amounts of chemicals or substances known to the state of California to cause cancer, birth defects, or other reproductive harm may be found in this product. Use care when handling chemical and petroleum products.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT:

Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

EMERGENCY AND FIRST AID PROCEDURES:

Remove victim to fresh air and restore breathing if required. Call a physician. If breathing stops, give artificial respiration. Keep person warm. Never give anything by mouth to an unconscious person. Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

**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:**

Clear Liquid

COLOR:

Slight yellow to amber

ODOR:

Aromatic odor

BOILING POINT:

175- 270° F

RELATIVE DENSITY:

0.88 g/mL

VAPOR DENSITY:

Heavier than air

FLASH POINT: 20° F (-7° C) (Closed Cup)
 FLAMMABILITY LIMITS: N/D (Lower %)
 SOLUBILITY VALUE
 (g/100g H₂O @ 20°C): Insoluble
 VOLATILE ORGANIC COMPOUND
 (VOC): 133.96 g/L

10- STABILITY AND REACTIVITY

STABILITY: Stable
 CONDITIONS TO AVOID: Heat and fires. Ignition sources
 INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong acids or strong oxidizers. This material may dissolve some plastics, rubber compounds or coatings.
 HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
 N/A
 HAZARDOUS POLYMERIZATION:
 N/A

11-TOXICOLOGICAL INFORMATION

Methyl Ethyl Ketone (CAS# 78-93-3): LD50/rabbit/skin/draize test = 500mg/24H moderate; LC50/mouse/inhalation = 32mg/m³/4H; Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

1-Propanol (CAS#71-23-8): LD50/rat/oral= 1.87-6.5g/kg; LD50/rabbit/dermal=4.0g/kg; LC50/rat/inhalation/1 hr >20000 ppm;Skin Irritation/rabbit=slight; Eye Irritation/rabbit=moderate

Glycol Ether EB (CAS#111-76-2): Carcinogenicity: Not listed by NTP, IARC or OSHA

Isopropyl Alcohol (CAS#67-63-0): LD50/LC50: Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, eye: 10 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 500 mg Mild; Inhalation, mouse: LC50 = 53000 mg/m³; Inhalation, rat: LC50 = 16000 ppm/8H; Inhalation, rat: LC50 = 72600 mg/m³; Oral, mouse: LD50 = 3600 mg/kg; Oral, mouse: LD50 = 3600 mg/kg; Oral, rabbit: LD50 = 6410 mg/kg; Oral, rat: LD50 = 5045 mg/kg; Oral, rat: LD50 = 5000 mg/kg; Skin, rabbit: LD50 = 12800. Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No information found. Teratogenicity: A rat & rabbit developmental toxicity study showed no teratogenic effects at doses that were clearly maternally toxic. In a separate rat study, no evidence of developmental neurotoxicity was associated with gestational exposures to IPA up to 1200 mg/kg/d. Reproductive Effects: See actual entry in RTECS for complete information. Mutagenicity: See actual entry in RTECS for complete information. Neurotoxicity: In rats exposed to isopropanol by inhalation, acute neurotoxicity was noted at 1 and 6 hours at 5000 ppm, but only minimal effects were seen at 1500 ppm and the animals recovered within 5 hours. No toxicity was noted at 500 ppm.

Polyamide (CAS#68410-23-1): Acute oral toxicity: LD50 > 5000 mg/kg body weight Acute dermal toxicity: LD50 > 5000 mg/kg body weight Skin irritation: slightly irritating Eye irritation: severely irritating

12-ECOLOGICAL INFORMATION

Methyl Ethyl Ketone (CAS#78-93-3): Ecotoxicity : Fish/Fathead Minnow/LC50 = 3220mg/l; Environmental : Substance evaporates in water with T1/2=3D (rivers) to 12D (lakes); Physical : Substance photo degrades in air with T1/2=2.3 days.

1-Propanol (CAS#71-23-8): Oxygen Demand Data: BOD-5=1.43 – 1.6 g/g, BOD-20 <2.0g/g; COD (Chemical Oxygen Demand)=1.4 g/g; ThBOD: 1.8 g/g Acute Aquatic Effects Data: 96 h LC-50 (fathead minnow): > 1000 ul/L; 24 h LC-50 (goldfish): > 5000 mg/l ; 48 h LC-50 (golden orfe): 4320 - 4560 mg/l; 96 h LC-50 (sideswimmer): > 1000 ul/L NOEC: 1000 ul/L; 96 h LC-50 (daphnid): > 1000 ul/L NOEC: 1000 ul/L; 96 h LC-50 (snail): > 1000 ul/L NOEC: 1000 ul/L

Glycol Ether EB (CAS#111-76-2): Ecotoxicity: Not expected to be toxic to aquatic life. Environmental: substance evaporates and biodegrades when released to soil, water and air.

Isopropanol (CAS#67-63-0): Ecotoxicity: Fish: Fathead Minnow: >1000 ppm; 96h; LC50Daphnia: >1000 ppm; 96h; LC50Fish: Gold orfe: 8970-9280 ppm; 48h; LC50 IPA has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge. Environmental: No information available. Physical: THOD: 2.40 g oxygen/gCOD: 2.23 g oxygen/gBOD-5: 1.19-1.72 g oxygen/g Other: No information available.

Polyamide (CAS#68410-23-1): General ecological information: no data available Advice of environmental fate: Not determined.

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.

14 – TRANSPORT INFORMATION

DOT / ADR / RID Classification:

DOT / ADR / RID PROPER SHIPPING NAME: PAINT
PRIMARY HAZARD CLASS/DIVISION: 3
UN/UA NUMBER: UN1263
PACKING GROUP: II

IMDG and ADN Classification:

IMDG PROPER SHIPPING NAME: PAINT
IMDG UN CLASS: 3
IMDG UN NUMBER: UN1263
IMDG PACKING GROUP: II
IMDG LABEL: FLAMMABLE LIQUID
IMDG VESSELS 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 SERIOUS EYE DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS.

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

Contains: Polyamide (50-60%), Methyl Ethyl Ketone (10-20%), 1-Propanol (10-20%), Glycol Ether EB (10-20%), and Isopropanol (10-20%).


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

Hazards: Highly flammable liquid and vapor. Causes serious eye damage. Causes skin irritation. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure: Inhalation - auditory dysfunction. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life.

Precautionary Statement(s): Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Store in a well-ventilated place. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash (hands and exposed skin) thoroughly after handling.

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. Get immediate medical attention. Ingestion - Do not induce vomiting. Drink one glass of water. If symptoms occur obtain medical attention.

15-REGULATORY INFORMATION

 **WARNING:** This material contains no chemical known to the State of California to cause cancer or reproductive harm. www.Prop65Warnings.ca.gov

Hazards: Highly flammable liquid and vapor. Causes serious eye damage. Causes skin irritation. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure: Inhalation - auditory dysfunction. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life.

Precautionary Statement(s): Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Store in a well-ventilated place. Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash (hands and exposed skin) thoroughly after handling.

H-Statements:

H225: Highly flammable liquid and vapour
H227: Combustible liquid
H302: Harmful if swallowed
H312: Harmful in contact with skin
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness
H401: Toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

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.