

SAFETY DATA SHEET

Randolph Enamel Hardener/Gloss Additive

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

PRODUCT NAME: **Randolph Enamel Hardener/Gloss Additive**
PRODUCT NUMBER: **23-E9313**
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

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

Highly flammable. Irritating to eyes and skin. 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. Vapors may cause drowsiness and dizziness.

CLASSIFICATION (1999/45) XN, N, R10, R20/21, R36/38, R51/53, R65, R66

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Xylene*	215-535-7	1330-20-7	20-50%	XN, R10, R20/21, R36/38, S25
Oil Modified Urethane	Not Available	Proprietary	5-35%	Not Available
Stoddard Solvent	232-489-3	8052-41-3	15-45%	XN, N, R10, R51/53, R65, R66, S16, S23, S24, S36, S60, S62

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

*This material is subject to the reporting requirements of section 313 of the Emergency Planning and the Community Right-To-Know Acts of 1986 and of 40 CFR 372.

COMPOSITION COMMENTS

The data shown are in accordance with the latest EC Directives.

4- FIRST AID MEASURES**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 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 of long term and/or high concentration exposures to vapors.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

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

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE:

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

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 even though they are water reducible.

CARCINOGENICITY: NTP CARCINOGEN: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A

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 required. 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

5- FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA:

Regular Foam, Dry Chemical, Carbon Dioxide

SPECIAL FIREFIGHTING PROCEDURES:

Wear self-contained breathing apparatus (SCEA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Containers of this material may build up pressure if exposed to heat (fire). Use water spray to disperse vapors if a spill or leak has not ignited. DO NOT extinguish a fire resulting from the flow of this combustible liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Water may be unsuitable in extinguishing a fire with this material. However, water may be used to cool and prevent the rupture of containers that are exposed to the heat of a fire. Decomposition products may form toxic materials.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors can form an explosive mixture with air. Vapor can travel to a source of ignition (spark or flame) and flash back. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Air oxidation of this product may cause it to spontaneously combust. To avoid spontaneous combustion, prevent residue build-up and soak soiled rags, spray-booth filter and over-spray in a closed water-filled metal container. High temperatures can cause sealed containers to rupture due to a buildup of internal pressure. Cool with water. Vapors are heavier than air and can travel some distance away and flash back. Never use welding or cutting torch on or near drum (even empty) because residue or product can ignite explosively. 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

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:

Inhalation of vapor or aerosol may cause irritation to the respiratory tract (nose, throat, and lungs). High vapor concentrations may cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects (effects on memory, respiratory depression, shortness of breath, loss of coordination, confusion, irregular heartbeat, narcosis, coma).

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Direct contact with this material causes eye irritation. High vapor concentrations may be irritating. Symptoms include stinging, tearing, and redness. Additional symptoms of eye exposure may include blurred vision. Mildly irritating to skin. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include skin blistering. Skin and eyes should be flushed with water for at least 15 minutes.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE:

Can enter the lungs during swallowing or vomiting and cause lung inflammation and/or lung damage. Irritating to mouth, throat, and stomach. Can cause nausea, vomiting, and stomach upset (diarrhea).

HEALTH HAZARDS (ACUTE AND CHRONIC):

Prolonged or repeated exposure may cause damage to the central nervous system and may result in permanent brain damage. Symptoms include loss of memory, loss of judgment, and loss of coordination. 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 of this product may be harmful or fatal. 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.

CARCINOGENICITY: NTP CARCINOGEN: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A

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:**Inhalation:**

If symptomatic, move to fresh air and restore breathing if required. Get medical attention if symptoms persist.

Eyes:

Move individual away from exposure. Any material that contacts the eye should be washed out immediately with water for at least 15 minutes. Get medical attention if symptoms persist.

Skin: Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

Ingestion:

Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Drink 1 or 2 glasses of milk or water to dilute. Call a poison control center or get medical attention immediately. Keep person warm. Never give anything by mouth to an unconscious person

Name	Workplace Exposure Limits	Remarks
Xylene	ACGIH: 100 ppm TWA; 150 ppm STEL NIOSH: None listed OSHA-Final PELs: 100 ppm TWA; 435 mg/m3 TWA	Consult local authorities for acceptable exposure limits.
Oil Modified Urethane	None listed	Same As Above
Stoddard Solvent	ACGIH: 100 ppm TWA NIOSH: 350 mg/m3 TWA 20000 mg/m3 IDLH OSHA-Final PELs: 500 ppm TWA; 2900 mg/m3 TWA	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:	Low viscosity liquid
COLOR:	Clear
ODOR:	Aromatic hydrocarbon characteristics
BOILING POINT:	281-315 ° F
RELATIVE DENSITY:	0.88 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	80 °F (Closed Cup)
FLAMMABILITY LIMITS:	1.0 (LOWER %) 6.0 (UPPER %)
SOLUBILITY VALUE (g/100g H ₂ O @ 20°C):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	615 g/L

10- STABILITY AND REACTIVITY

STABILITY:

Stable under normal storage and use conditions.

CONDITIONS TO AVOID:

Heat and fires. Ignition sources.

INCOMPATIBILITY (MATERIALS TO AVOID):

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

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon monoxide, carbon dioxide, and various hydrocarbons.

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions

11-TOXICOLOGICAL INFORMATION

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.

Oil Modified Urethane – Proprietary: No Information available

Stoddard Solvent (CAS#8052-41-3): LD50/rabbit/ eye/draize test = 500 mg/24H Moderate; Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: Epidemiological studies involving petroleum refinery workers indicate persons with routine exposure to petroleum or one of its constituents may be at an increased risk to the development of benign neoplasm's, digestive tract cancer, and skin cancer. Teratogenicity: No information found. Reproductive Effects: No information found. Mutagenicity: No information found. Neurotoxicity: No information found

12- ECOLOGICAL INFORMATION

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.

Oil Modified Urethane – Proprietary: No Information available

Stoddard Solvent (CAS#8052-41-3): Ecotoxicity: No data available. No information available. Environmental: No information available. Physical: No information available.

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 PROPER SHIPPING NAME:	PAINT RELATED MATERIAL
PRIMARY HAZARD CLASS/DIVISION:	3
UN/UA NUMBER:	UN1263
PACKING GROUP:	III

IMDG and ADN Classification:

IMDG PROPER SHIPPING NAME:	PAINT RELATED MATERIAL
IMDG UN CLASS:	3
IMDG UN NUMBER:	UN1263
IMDG PACKING GROUP:	III
IMDG LABEL:	FLAMMABLE LIQUID
IMDG VESSEL STOWAGE:	A

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 IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS.

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

Contains: Xylene, Oil modified Urethane, and Stoddard Solvent. This product contains one or more chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Hazards: H226: Flammable liquid and vapour. H411: Toxic to aquatic life with long lasting effects. H315: Causes skin irritation. H332: Harmful if inhaled. H319: Causes serious eye irritation.

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. P243: Use only non-sparking tools. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P308+P313: IF exposed

or concerned: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P312: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

15 – REGULATORY INFORMATION

Hazards: H226: Flammable liquid and vapour. H411: Toxic to aquatic life with long lasting effects. H315: Causes skin irritation. H332: Harmful if inhaled. H319: Causes serious eye irritation.

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.

P243: Use only non-sparking tools. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P308+P313: IF exposed or concerned: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P312: Call a POISON CENTER or doctor/physician if you feel unwell.

CODES:



- XN=harmful
- N= dangerous for the environment

R-Phrases:

R10: Flammable
 R20/21: Harmful by inhalation and in contact with skin
 R36/38: Irritating to eyes and skin
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R65: Harmful: may cause lung damage if swallowed
 R66: Repeated exposure may cause skin dryness or cracking

S-Phrases:

S16: Keep away from sources of ignition - No smoking
 S23: Do not breathe fumes/vapor/spray
 S24: Avoid contact with skin
 S25: Avoid contact with eyes
 S36: Wear suitable protective clothing
 S60: This material and its container must be disposed of as hazardous waste
 S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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.