

SAFETY DATA SHEET

Randolph D-7201 Accelerator for Ranthane

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

PRODUCT NAME: Randolph D-7201 Accelerator for Ranthane
PRODUCT NUMBER: D-7201 Date Prepared: 9-11/2018
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

 **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](http://www.P65Warnings.ca.gov)

As with all catalyzed polyurethanes, a fresh-air supplied mask is mandatory. Charcoal masks will not protect from polyisocyanates in the spray mist.

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

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

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, F, N, R11, R20, R51/53, R66, R67

3 – COMPOSITION /INFORMATION ON INGREDIENTS

Name	EC No.	CAS No.	Content %	Classification (67/548/EEC)
Toluene*	203-625-9	108-88-3	30-40%	XN, F, R11, R20, S16, S25, S29, S33
N-BUTYL ACETATE*	204-658-1	123-86-4	30-40%	R10, R66, R67, S25
Mineral Spirits*	265-191-7	64742-88-7	10-20%	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**WARNING:**

As with all catalyzed polyurethanes, a fresh-air supplied spray mask is mandatory. Charcoal masks will not protect from polyisocyanates in the spray mist.

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.

CAUTION! FLAMMABLE LIQUID AND VAPOR!**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Inhalation may cause dizziness, breathing difficulty, headache, faintness and loss of coordination. May cause respiratory tract irritation.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Eye contact may cause slight to mild irritation and/or corneal opacity (clouding of eye surface). Can cause burning sensation, tearing and redness. Skin exposure may cause slight to mild irritation. Prolonged or repeated contact may dry the skin and lead to irritation (i.e., dermatitis). Can cause redness, itching and burning sensation.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE:

Irritating to the mouth, throat and stomach. May cause nausea, vomiting, pain and stomach upset (e.g., diarrhea). Can cause dizziness, faintness, headache and loss of coordination.

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:

INHALATION:

Remove to fresh air. Restore breathing. Vapors may irritate the nose and throat. Consult physician. If breathing stops, give artificial respiration. Keep person warm.

SPLASH (Eye):

Contact lens wearers should consult provider before handling. Flush with copious amounts of water. Consult physician immediately if there is eye contact. First aid must be started immediately, since delay can result in serious injury. Call a physician as soon as possible no matter how slight the injury appears to be. Flush with water for at least 15 minutes.

SPLASH (Skin):

Wash with soap and water. Remove contaminated clothing. Consult physician if irritation persists.

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

5- FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA:

Dry chemical, CO₂, Halon, Foam

SPECIAL FIREFIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

High temperatures can cause sealed containers to rupture due to a buildup of internal pressure. Cool with water spray. Vapors are heavier than air and can travel some distance away and flash back.

SENSITIVITY TO STATIC DISCHARGE:

Material may accumulate a static charge which could act as an ignition source. Precautions should be taken when pouring to minimize splash/free fall.

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
Toluene	ACGIH: 50ppm TWA NIOSH: 100ppm TWA, 375 mg/m ³ TWA, 500	Consult local authorities for acceptable exposure limits

	ppm IDLH OSHA-Final PELs: 200 ppm TWA	
N-BUTYL ACETATE	ACGIH: 150 ppm TWA; 200 ppm STEL NIOSH: 150 ppm TWA; 710 mg/m ³ TWA 1700 ppm IDLH OSHA-Final PELs: 150 ppm TWA; 710 mg/m ³ TWA	Same As Above
Mineral Spirits	ACGIH: 100 ppm TLV NIOSH: Not available OSHA-Final PELs: 100 ppm 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:	Liquid
COLOR:	Clear.
ODOR:	Mild
BOILING POINT:	230° -415° F
RELATIVE DENSITY:	0.867 g/mL
VAPOR DENSITY:	Heavier than air
FLASH POINT:	45 °F (7° C) (Closed Cup)
FLAMMABILITY LIMITS:	LOWER: 0.7% UPPER: 7.6%
SOLUBILITY VALUE (g/100g H ₂ O @ 20°C):	Insoluble
VOLATILE ORGANIC COMPOUND (VOC):	782 g/L

10- STABILITY AND REACTIVITY**STABILITY:**

Stable under normal storage/use conditions.

CONDITIONS TO AVOID:

Strong oxidizers, acids and alkalis.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid strong oxidizing agents, acids and alkalis.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Information not available.

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions.

11-TOXICOLOGICAL INFORMATION

Toluene (CAS# 108-88-3): ACGIH: A4-Not Classifiable as a Human Carcinogen; IARC: Group 3 carcinogen; No other toxicological information available.

N-BUTYL ACETATE (CAS#123-86-4): LD50/rabbit/oral = 7.4 g/kg. LD50/LC50: Draize test, rabbit, eye: 100 mg Moderate; Draize test, rabbit, skin: 500 mg/24H Moderate; Inhalation, mouse: LC50 = 6 gm/m³/2H; Inhalation, rat: LC50 = 390 ppm/4H; Oral, mouse: LD50 = 6 gm/kg; Oral, rabbit: LD50 = 3200 mg/kg; Oral, rat: LD50 = 10768 mg/kg; Skin, rabbit: LD50 = >17600 mg/kg; Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No information found. Teratogenicity: Exposure to n-butyl acetate vapors throughout gestation did not cause significant teratogenicity in rabbits, rats, or mice. Reproductive Effects: No information found. Mutagenicity: No information found. Neurotoxicity: No information found.

Mineral Spirit (CAS#64742-88-7): ACUTE STUDIES: EYE EFFECTS: Slight irritation on contact. SKIN EFFECTS: May cause irritation or dermatitis with prolonged and repeated contact. ACUTE ORAL EFFECTS: Tests on similar materials indicate an order of acute oral toxicity. ACUTE INHALATION EFFECTS: Acute toxicity expected on inhalation. This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA. Therefore, if the precautions outlined in this bulletin are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Nevertheless, good industrial hygienic practices are recommended.

12- ECOLOGICAL INFORMATION

Toluene (CAS#108-88-3): Ecotoxicity : No data available; Environmental : From soil, substance evaporates and is microbially biodegraded. In water, substance volatilizes and biodegrades; Physical: Photo chemically produced hydroxyl radicals degrade substance.

N-BUTYL ACETATE (CAS#123-86-4): Ecotoxicity: Fish: Fathead Minnow: LC50 = 18.0 mg/L; 96 Hr.; Unspecified Fish: Bluegill/Sunfish: LC50 = 100.0 mg/L; 96 Hr.; Static condition Water flea EC50 = 44.0 mg/L; 48 Hr.; 23 degrees C Algae: LC50 = 320.0 mg/L; 96 Hr.; Unspecified Bacteria: Phytobacterium phosphoreum: EC50 = 3100.0-130 mg/L; 5, 15 minutes; Microtox test, 15 degrees C Daphnia: Daphnia: 44-205 mg/l; 96 H; LC50 No data available. Environmental: Based on estimated Koc values of 34 and 233, n-butyl acetate may be subject to moderate-to-high leaching. Volatilization from dry soil surfaces is likely to be rapid. n-Butyl acetate may be susceptible to significant biodegradation in natural water. Physical: n-Butyl acetate will exist almost entirely in the vapor-phase in the ambient atmosphere due to its relatively high vapor pressure. The half-life for the vapor-phase reaction of n-butyl acetate with photo chemically produced hydroxyl radicals has been estimated to be about 6 days in an average atmosphere indicating that this reaction will be the dominant removal mechanism. Other: ThOD: 2.207 g oxygen/g BOD-5: 1.020 g oxygen/g BOD-20: 1.45 g oxygen/g

Mineral Spirit (CAS#64742-88-7): If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming. This product is rapidly biodegradable. Biodegradation is possible within 90 to 120 days in aerobic environments at temperatures above 70o F (21o C).

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 PROPER SHIPPING NAME: Randolph D-7201 Accelerator for Ranthane
PRIMARY HAZARD CLASS/DIVISION: 3
UN/UA NUMBER: UN1263
PACKING GROUP: II

IMO PROPER SHIPPING NAME: PAINT
IMO UN CLASS: 3
IMO UN NUMBER: 1263
IMO PACKING GROUP: II
IMO LABEL: FLAMMABLE LIQUID
IMO 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 SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION. 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: Toluene (30-40%), n-Butyl Acetate (30-40%), and Mineral Spirits (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 vapour. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

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/vapours/spray. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment.

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

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

Hazards: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

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/vapours/spray. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment.

CODES:



XN



F



N

- XN =harmful
- F=highly flammable
- N= dangerous for the environment

R-Phrases:

R10: Flammable
 R11: Highly flammable
 R20: Harmful by inhalation
 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
 R67: Vapors may cause drowsiness and dizziness

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
- S29: Do not empty into drains
- S33: Take precautionary measures against static discharges
- 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.