

# SAFETY DATA SHEET

# **VonRoll** USA, INC.

REVISION DATE: 06/05/2013  
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PREPARED BY: S. M. CARDELLA

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURED BY:**  
**VON ROLL USA, INC.**

200 VON ROLL DRIVE  
SCHENECTADY, NY 12306  
BUSINESS: (518) 344-7100  
EMERGENCY: (518) 395-3310

**PRODUCT ID: 7031**

**CHEMICAL FAMILY:** COMPOUNDS AND ADHESIVES

**CHEMICAL NAME:** PHENOLIC 74033 BUTVAR RESIN

**FORMULA:** MIXTURE

**SYNONYMS:** NONE

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	APPROX. WEIGHT PERCENT	ACGIH 8 HR. TWA	ACGIH UNIT	OSHA PEL-TWA	OSHA UNIT
Ethyl Benzene 100-41-4	1 - 5	100	PPM	100	PPM
Xylene (Mixed Isomers) 1330-20-7	10 - 30	100	PPM	100	PPM
Acetone 67-64-1	10 - 30	500	PPM	1000	PPM
Cresol Formaldehyde Polymer 102382-06-9	10 - 30	NA	PPM	NA	PPM
Formaldehyde 50-00-0	0.1 - 1	MAXIMUM: 0.3	PPM	0.75	PPM
Ethyl Alcohol 64-17-5	30 - 60	1000	PPM	1000	PPM

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Refer to other MSDS sections for detailed information.

**TARGET ORGANS:** Skin. Eyes. Respiratory System. Gastrointestinal System. Central Nervous System. Kidneys. Liver. Hematopoietic System (Blood). Embryo / Fetus. Reproductive System. Immune System - bone marrow.

## **EFFECTS FROM ACUTE EXPOSURE:**

**INGESTION:** Harmful if swallowed. Causes vomiting, nausea, and diarrhea. May cause severe damage of gastrointestinal tract. Aspiration can be a hazard if this material is swallowed. May cause pulmonary edema.

**SKIN CONTACT:** Causes moderate skin irritation. Will cause skin defatting. Can dry skin.

**INHALATION:** Causes irritation of the mouth, nose, and throat. Irritates mucous membranes. Excessive inhalation causes headache, dizziness, nausea and incoordination. Dust hazard would only exist if the volatiles have evaporated.

**EYE CONTACT:** May cause moderate eye irritation.

**AGGRAVATED MEDICAL CONDITIONS:** Respiratory. Pulmonary disorders. Liver, kidney. Dermal ailments. Central nervous system disorders. Gastrointestinal disorders.

**EFFECTS OF CHRONIC EXPOSURE:** Dermatitis. Respiratory ailments. Central nervous system damage. Gastrointestinal effects. Eye damage. Blood disorders. Optic nerve damage. Blindness. May cause liver and kidney damage. This product contains ethyl alcohol, which consumption of is known to cause birth defects. Reproductive disorders. Nasal cancer.

**CARCINOGENICITY COMMENT:** This product or one of its ingredients present at 0.1% or more is listed as a carcinogen or potential carcinogen by NTP, IARC or OSHA.

**CARCINOGENICITY:** Ethyl Benzene: The International Agency for Research on Cancer (IARC) has determined that there is inadequate evidence in humans and sufficient evidence in experimental animals for the carcinogenicity of ethyl benzene. IARC has given ethyl benzene an overall evaluation of 2B possibly carcinogenic to humans.

Formaldehyde: Reported by NTP to produce carcinomas in the nasal cavity of laboratory animals through inhalation. There is inadequate evidence to assess carcinogenicity of formaldehyde in man.

**ROUTES OF ENTRY:** Contact. Absorption. Inhalation. Ingestion.

**OTHER:** None known.

## **4. FIRST AID MEASURES**

**INGESTION:** Seek medical attention immediately.

**SKIN CONTACT:** Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

**INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

**EYE CONTACT:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**NOTES TO PHYSICIAN:** Aspiration may cause severe lung damage. Evacuate stomach in a way which avoids aspiration.

## **5. FIRE FIGHTING MEASURES**

**FLASH POINT (F):** -4 (C): -20

**FLASH POINT METHOD:** Tagliabue Open Cup (TOC)

**IGNITION TEMP (F):** Unknown (C): Unknown

**OSHA FLAMMABILITY CLASSIFICATION:** Flammable Liquid, Class IB

**FLAMMABLE LIMITS IN AIR - LOWER (%):** 1.0

**FLAMMABLE LIMITS IN AIR - UPPER (%):** 12.8

**SENSITIVITY TO MECHANICAL IMPACT (Y/N):** No

**SENSITIVITY TO STATIC DISCHARGE:** Sensitivity to static discharge is expected; material has a flash point below 200 F (93 C).

**EXTINGUISHING MEDIA:** Alcohol foam. Carbon dioxide. Dry chemical.

**FIRE FIGHTING PROCEDURES:** Vapors may form explosive mixture with air. Extremely flammable. Positive pressure, self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Containers can build up pressure if exposed to heat (fire).

## **6. ACCIDENTAL RELEASE MEASURES**

**ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Warn other workers of spill. Increase area ventilation.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Use ground strap and appropriate precautions for dispensing flammable liquids. Recommended storage in original container at temperature below 30 C (85 F). Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Danger: Extremely flammable. Keep container closed when not in use to prevent contact with acidic, basic or oxidizing materials. Keep away from food and smoking materials. Wash hands before eating and smoking. Use only spark-proof and explosion-proof tools and equipment.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Von Roll recommends evaluation and selection of appropriate engineering controls (such as ventilation and eyewash/safety shower) as well as appropriate personal protective equipment (such as respiratory protection, protective gloves, eye protection) for safely handling this material. The following guidelines should be considered in this process.

**ENGINEERING CONTROLS:** Exhaust ventilation. Showers. Eyewash stations. Use in a well ventilated area.

**RESPIRATORY PROTECTION:** Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded, or over exposure is likely.

**GLOVES:** Viton rubber gloves. Polyvinyl alcohol gloves.

**EYE PROTECTION:** Splash Goggles.

**OTHER PERSONAL PROTECTION DATA:** Face shield. Rubber apron or other chemical-resistant apron.

**VENTILATION:** Use only in well ventilated area. Localized mechanical ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### COMPONENT INFORMATION:

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	APPROX. WEIGHT PERCENT	BOILING POINT (F) :	BOILING POINT (C) :	VAPOR PRESSURE @ 20 C (mmHg) :	VAPOR DENSITY (AIR=1) :
Ethyl Alcohol 64-17-5	30 - 60	173	78	40	1.59
Cresol Formaldehyde Polymer 102382-06-9	10 - 30	NOT DETERMINED	NOT DETERMINED	NOT DETERMINED	NOT DETERMINED
Acetone 67-64-1	10 - 30	133	56	182	2.00
Xylene (Mixed Isomers) 1330-20-7	10 - 30	281	139	5.1	3.60
Ethyl Benzene 100-41-4	1 - 5	277	136	7.1	3.66
Formaldehyde 50-00-0	0.1 - 1	-5.8	-21	10 @ -88 C	1.03
Benzene 71-43-2	<5 PPM	176	80	75.2	2.77
Acetaldehyde 75-07-0	<5 PPM	69	21	740	1.52

### PRODUCT INFORMATION:

**BOILING POINT (F):** NOT DETERMINED (C): NOT DETERMINED

**FREEZING POINT (F):** NOT DETERMINED (C): NOT DETERMINED

**MELTING POINT (F):** NOT DETERMINED (C): NOT DETERMINED

**PHYSICAL STATE:** LIQUID

**DESCRIPTION:** AMBER

**ODOR:** AROMATIC

**ODOR THRESHOLD (PPM):** UNKNOWN

**% VOLATILE BY WEIGHT:** 76

**EVAPORATION RATE (BUTYL ACETATE = 1):** >1

**VAPOR PRESSURE (mmHg @ 20 C):** NOT DETERMINED

**VAPOR DENSITY (AIR=1):**

NOT DETERMINED

**SPECIFIC GRAVITY @ 25 C (WATER = 1):** 0.89

**ACID/ALKALINITY (MEG/G):** NOT DETERMINED

**pH:** NOT DETERMINED

**SOLUBILITY IN WATER DESCRIPTION:** APPRECIABLE

**SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):** NOT DETERMINED

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide. Carbon dioxide. Toxic fumes. Oxides of nitrogen.

**MATERIALS TO AVOID:** Avoid contact with acidic, basic or oxidizing agents.

**CONDITIONS TO AVOID:** Keep away from heat, sparks and flame.

## 11. TOXICOLOGICAL INFORMATION

### COMPONENT INFORMATION:

#### ACUTE ORAL LD50 (MG/KG):

Ethyl Alcohol 64-17-5	>25,000 (RAT)
Cresol Formaldehyde Polymer 102382-06-9	NOT DETERMINED
Acetone 67-64-1	TDLO: 2,857 (HUMAN)
Xylene (Mixed Isomers) 1330-20-7	4,300 (RAT)
Ethyl Benzene 100-41-4	3,500 (RAT)
Formaldehyde 50-00-0	100 (RAT)
Benzene 71-43-2	930 (RAT)
Acetaldehyde 75-07-0	661 (RAT)

#### ACUTE DERMAL LD50 (MG/KG):

Ethyl Alcohol 64-17-5	NOT DETERMINED
Cresol Formaldehyde Polymer 102382-06-9	NOT DETERMINED
Acetone 67-64-1	20,000 (RABBIT)
Xylene (Mixed Isomers) 1330-20-7	>1,700 (RABBIT)
Ethyl Benzene 100-41-4	17,800 (RABBIT)
Formaldehyde 50-00-0	270 (RABBIT)

Benzene 71-43-2	>9,400 (RABBIT)
Acetaldehyde 75-07-0	3,540 (RABBIT)

#### ACUTE INHALATION:

Ethyl Alcohol 64-17-5	LC50: 20,000 PPM / 10H (RAT)
Cresol Formaldehyde Polymer 102382-06-9	NOT DETERMINED
Acetone 67-64-1	LC50: 50,100 MG / M3 / 8H (RAT)
Xylene (Mixed Isomers) 1330-20-7	LC50: 5,000 PPM / 4H (RAT)
Ethyl Benzene 100-41-4	LCLO: 4,000 PPM / 4H (RAT)
Formaldehyde 50-00-0	LC50: 203 MG / M3 (RAT)
Benzene 71-43-2	LC50: 10,000 PPM / 7H (RAT)
Acetaldehyde 75-07-0	LC50: 13,300 PPM / 4H (RAT)

#### OTHER:

Ethyl Alcohol 64-17-5	Eye and skin irritant.
Cresol Formaldehyde Polymer 102382-06-9	NOT DETERMINED
Acetone 67-64-1	Eye and skin irritant.
Xylene (Mixed Isomers) 1330-20-7	Eye and skin irritant.
Ethyl Benzene 100-41-4	Eye and skin irritant.
Formaldehyde 50-00-0	Eye and skin irritant.
Benzene 71-43-2	Eye and skin irritant.
Acetaldehyde 75-07-0	Eye and skin irritant.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data at this time.

**CHEMICAL FATE INFORMATION:** No data at this time.

**PERSISTENCE:** Not determined.

**APPRAISAL:** Not determined.

**MOBILITY:** Not determined.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL OF WASTE METHOD:** Disposal should be made in accordance with federal, state and local regulations.

**EPA HAZARDOUS WASTE DISPOSAL CODE:** D001, RQ = 100 lb / 45.4 kg.

## 14. TRANSPORT INFORMATION

**DOT SHIPPING NAME:** ADHESIVES

**DOT HAZARD CLASS:** 3

**DOT PACKING GROUP:** PG II

**DOT LABEL(S):** FLAMMABLE LIQUID

**UN/NA NUMBER:** UN1133

**PLACARDS:** FLAMMABLE LIQUID

**ICAO/IATA:** 3 , II

**MARINE POLLUTANT:** NONE

**15. REGULATORY INFORMATION**

**HAZARD RATING SYSTEMS**

**NFPA RATING:** HEALTH 2 , FLAMMABILITY 3 , INSTABILITY 0  
**HMIS CLASSIFICATION:** HEALTH \*2 , FLAMMABILITY 3 , PHYSICAL HAZARD 0  
**VOC EXCLUDING H2O**  
 & **EXEMPTED VOC (LB/GL):** 5.8 lb VOC/gal by ASTM 2369-81

**COUNTRY REGISTRATION**

**TSCA INVENTORY STATUS:** All components are NOT listed on TSCA Inventory.  
**CANADIAN INVENTORY:** This product does NOT comply with the Canadian DSL.  
**EINECS:** This product does not comply with EINECS  
**REGULATORY INFORMATION: CA/MA/NJ/PA RIGHT-TO-KNOW**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	APPROX. WEIGHT PERCENT	CALIFORNIA PROPOSITION 65	MASSACHUSETTS RIGHT-TO-KNOW	NEW JERSEY RIGHT-TO-KNOW	PENNSYLVANIA RIGHT-TO-KNOW
Ethyl Alcohol 64-17-5	30 - 60	NOT LISTED	YES	YES	YES
Cresol Formaldehyde Polymer 102382-06-9	10 - 30				
Acetone 67-64-1	10 - 30	NOT LISTED	YES	YES	YES
Xylene (Mixed Isomers) 1330-20-7	10 - 30	NOT LISTED	YES	YES	YES
Ethyl Benzene 100-41-4	1 - 5	YES	YES	YES	YES
Formaldehyde 50-00-0	0.1 - 1	YES	YES	YES	YES
Benzene 71-43-2	<5 PPM	YES	YES	YES	YES
Acetaldehyde 75-07-0	<5 PPM	YES	YES	YES	YES

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST:** No components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and emergency planning.

**SARA (311, 312) HAZARD CLASS:** ACUTE HEALTH HAZARD  
 CHRONIC HEALTH HAZARD  
 FIRE HAZARD

**SARA 313 CHEMICALS:** This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372.

- 
- METHYL ALCOHOL // 67-56-1
  - ETHYL BENZENE // 100-41-4
  - XYLENE (MIXED ISOMERS) // 1330-20-7
  - FORMALDEHYDE // 50-00-0

**WHMIS (CANADA):**

**WHMIS HAZARD CLASS:**

- B2 FLAMMABLE LIQUIDS
- D2A VERY TOXIC MATERIALS
- D2B TOXIC MATERIALS

**16. OTHER INFORMATION****COMPANY DISCLAIMER:**

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

**ABBREVIATIONS:**

EST = ESTIMATED  
NA = NOT APPLICABLE

NEGL. = NEGLIGIBLE  
UNKN = UNKNOWN

**ADDITIONAL INFORMATION:**

NONE