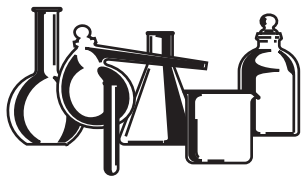


# MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards



## HMIS HAZARD RATINGS

HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

## TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Compounds, cleaning liquid		
HAZARD CLASS / PKG GRP:	8 / III	REF:	49 CFR 173.154, .203, .241
IDENTIFICATION NUMBER:	NA 1760	LABEL:	CORROSIVE

## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

**ROYAL BLUE**

**#2100**

Page 1 of 2

MANUFACTURER'S NAME

Royal Restorations, LLC

EMERGENCY TELEPHONE NUMBER

CHEM TEL (800) 255-3924

ADDRESS (NUMBER, STREET, P.O. BOX)

4019 Sandy Spring Raod #107

TELEPHONE NUMBER FOR INFORMATION

(301) 421-4360

(CITY, STATE AND ZIP CODE)

Burtonsville, MD 20866

DATE PREPARED: June 30, 2001

SUPERSEDES: July 26, 1993

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS

(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))

CAS #

%  
(OPTIONAL)

OSHA PEL  
PPM MG/M<sup>3</sup>

ACGIH TWA  
PPM MG/M<sup>3</sup>

SARA  
TITLE III

RQ  
LBS

Ethylene glycol monobutyl ether (a,b)

111-76-2

1 - 5

50

240

20

Yes

(a) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(b) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

## SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Corrosive and irritating to upper respiratory tract and mucous membranes; may cause headache, dizziness, nausea, vomiting and malaise.

Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.

SKIN: Corrosive and irritating; chemical burns may result from contact; severe irritant; prolonged contact may cause moderate reddening, swelling and possible necrosis.

Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention.

EYES: CORROSIVE; Contact with eyes is painful and irritating and will cause chemical burns, associated with redness and swelling of the conjunctiva.

Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

INGESTION: Corrosive and irritating to digestive tract; may cause gastric distress, stomach pains and vomiting; moderately toxic, may result in red blood cell hemolysis.

Drink large quantities of water or milk; give diluted vinegar or lemon juice to conscious person; DO NOT induce vomiting; seek medical attention immediately.

HEALTH HAZARDS (ACUTE AND CHRONIC): Corrosive to skin and eyes; prolonged inhalation of this product may cause ulcers to the upper respiratory tract; no long term health effects are known at this time, however, repeated contact with eyes may cause severe irritation.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

**MATERIAL SAFETY DATA SHEET**

IDENTITY (AS USED ON LABEL AND LIST)  
ROYAL BLUE #2100 Page 2 of 2  
Date: June 30, 2001

**SECTION 4 - FIRE FIGHTING MEASURES**

FLASH POINT (METHOD USED) Non-flammable NFPA RATING None FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable

EXTINGUISHING MEDIA  
Carbon dioxide, water, water fog, dry chemical, chemical foam

SPECIAL FIRE FIGHTING PROCEDURES  
Keep containers cool with water spray to prevent container rupture due to steam buildup; CAUTION - material is corrosive.

UNUSUAL FIRE AND EXPLOSION HAZARDS  
None

**SECTION 5 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container; this is a regulated product, refer to SARA Title III, Section 313 40 CFR 372 for complete spill reporting regulations.

**SECTION 6 - HANDLING AND STORAGE**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.

**SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

VENTILATION LOCAL EXHAUST: Required MECHANICAL (GENERAL): Yes SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required.  
PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs. EYE PROTECTION: Goggles with side shields; safety eyebath nearby.  
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.  
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

**SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES**

BOILING POINT 212° F SPECIFIC GRAVITY (WATER = 1) 1.020  
VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C pH 13.0  
VAPOR DENSITY (AIR = 1) > 1 EVAPORATION RATE (WATER = 1) < 1  
SOLUBILITY IN WATER Complete % VOLATILE (BY WEIGHT) 95%  
APPEARANCE AND ODOR Clear blue liquid, characteristic odor

**SECTION 9 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: XXX CONDITIONS TO AVOID: Extreme temperatures  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalis  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.  
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX CONDITIONS TO AVOID: None

**SECTION 10 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.