



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER <b>BUCKEYE LIBERATE</b> <b>CODE: 5610</b>		PRODUCT IDENTIFICATION NUMBER (PIN) <b>Not Applicable</b>	
PRODUCT USE <b>Heavy Duty Foaming Cleaner/Degreaser, Water Based</b>			
MANUFACTURER'S NAME <b>BUCKEYE INTERNATIONAL, INC.</b>		SUPPLIER'S NAME	
STREET ADDRESS <b>2700 WAGNER PLACE</b>		STREET ADDRESS	
CITY <b>MARYLAND HEIGHTS</b>	PROVINCE <b>MISSOURI, U.S.A.</b>	CITY	PROVINCE
POSTAL CODE <b>63043-3471</b>	MEDICAL EMERGENCY TELEPHONE NUMBER <b>1-800-303-0441</b>	POSTAL CODE	EMERGENCY TELEPHONE NO.
TRANSPORTATION EMERGENCY TELEPHONE NUMBER <b>1-800-535-5053</b>			

## SECTION 2 - INGREDIENTS

INGREDIENTS	% wgt/wgt	CAS NUMBER	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES)
Soft Water	68-100	7732-18-5	Not Available	Not Available
Dipropylene Glycol n-Butyl Ether	3-7	29911-28-2	Rat Oral 4.4 g/kg	Not Available
Dodecylbenzene Sulfonic Acid	1-5	27176-87-0	Not Available	Not Available
Sodium Xylene Sulfonate	1-5	1300-72-7	Rat Oral 4 g/kg	Not Available

## SECTION 3 - PHYSICAL DATA

PHYSICAL STATE <b>Liquid</b>	ODOUR AND APPEARANCE <b>Mild - No Fragrance Added; Clear Solution</b>			
VAPOUR PRESSURE (mmHG) <b>Not Available</b>	VAPOUR DENSITY (Air=1) <b>Not Available</b>	EVAPORATION RATE (Water =1) <b>1</b>	BOILING POINT (°C) <b>100°</b>	FREEZING POINT (°C) <b>0°</b>
pH (CONC.) <b>12.7 ± 0.3</b>	pH (USE DILUTION) <b>10.5 ± 0.2</b> 1:25 (pH 7 DI water)	SPECIFIC GRAVITY <b>1.02 ± 0.01</b>	COEFF. WATER/OIL DIST. <b>Not Available</b>	ODOUR THRESHOLD (ppm) <b>Not Available</b>

## SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY    IF YES, UNDER <b>No</b> WHICH CONDITIONS?	MEANS OF EXTINCTION <b>Not Applicable</b>			
FLASHPOINT (°C) AND METHOD <b>Tag Closed Cup-None!</b>	UPPER FLAMMABLE LIMIT (% BY VOLUME) <b>Not Applicable</b>	LOWER FLAMMABLE LIMIT (% BY VOLUME) <b>Not Applicable</b>		
HAZARDOUS COMBUSTION PRODUCTS <b>Oxides of carbon, nitrogen and sulfur.</b>		EXPLOSION DATA                      SENSITIVITY TO IMPACT <b>Not Applicable</b>		
		SENSITIVITY TO STATIC DISCHARGE <b>Not Applicable</b>		

## SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY                      IF NO, UNDER WHICH CONDITIONS? <b>Yes</b>	INCOMPATIBILITY WITH OTHER SUBSTANCES?                      IF SO, WHICH ONES? <b>Yes</b> <b>Do not mix with chlorine bleach or acids.</b>		
REACTIVITY, AND UNDER WHAT CONDITIONS <b>None Known</b>			
HAZARDOUS DECOMPOSITION PRODUCTS <b>None Known</b>			

PRODUCT IDENTIFIER  
**BUCKEYE LIBERATE CODE 5610**

**SECTION 6 - TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY	SKIN CONTACT	SKIN ABSORPTION	EYE CONTACT	INHALATION	INGESTION
	Yes	No	Yes	No	No

EFFECTS OF ACUTE EXPOSURE TO PRODUCT  
**Moderate eye irritant. Not irritating to skin.**

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT  
**None Known**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Not Available	Moderate eye irritant.	Not Available	No
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
No	No	No	None Known

**SECTION 7 - PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT

GLOVES (SPECIFY)	Rubber gloves or other chemical resistant gloves. Needed for clean up of spill or for prolonged skin contact.	RESPIRATOR (SPECIFY)	None Required	EYE (SPECIFY)	When eye contact may occur, wear safety glasses or chemical splash goggles.
FOOTWEAR (SPECIFY)	Wear water or chemical resistant footwear when scrubbing floors.	CLOTHING (SPECIFY)	Normal Clothing	OTHER (SPECIFY)	None Required

ENGINEERING CONTROLS (SPECIFY: e.g. VENTILATION, ENCLOSED PROCESS.)  
**Maintain adequate room ventilation.**

LEAK AND SPILL PROCEDURE  
**Pick up with mop, wet/dry vac or absorbent material. Rinse area with clear water and allow floor to dry before allowing traffic.**

WASTE DISPOSAL  
**Flush to sanitary sewer or send to sanitary landfill, following local, provincial and federal laws.**

HANDLING PROCEDURES AND EQUIPMENT  
**Wash thoroughly with soap and water after handling.**

STORAGE REQUIREMENTS  
**KEEP OUT OF REACH OF CHILDREN! Store at room temperature. Store away from acids. Keep container closed when not in use. Rinse container before discarding.**

SPECIAL SHIPPING INFORMATION  
**Compound, Cleaning, Liquid.**

**SECTION 8 - FIRST AID MEASURES**

SPECIFIC MEASURES  
**For Eyes: Flush with cool water for 15 minutes. If irritation occurs and persists, see physician.**  
**For Skin: Flush with water for 15 minutes. If irritation occurs and persists, see physician.**  
**For Ingestion: Call for medical advice immediately. DO NOT induce vomiting. Do not give anything by mouth unless directed to do so by a medical professional.**

Product produced under one or more of the following U.S. Patents: 5,080,822; 5,080,831; 5,158,710; 5,419,848; 5,585,341; 5,849,682. Canada Patents: 2,056,425; 2,080,352; 2,057,027.

This product is regulated under WHMIS. (D.2.B.)

HAZARD	NFPA	HMIS	RATING
HEALTH	1	1	4 = EXTREME
FIRE	0	0	3 = SERIOUS
REACTIVITY	0	0	2 = MODERATE
			1 = SLIGHT
			0 = MINIMAL

**SECTION 9 - PREPARATION DATE OF MSDS**

PREPARED BY (GROUP, DEPARTMENT, ETC.) SCOTT MAAG - VICE PRESIDENT OF OPERATIONS	PHONE NUMBER (314) 291-1900	DATE February 15, 2015
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