MATERIAL SAFETY DATA SHEET FRANKLIN INTERNATIONAL

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	Company Nar	ne:	FRANKL	IN INTERNATIONA	L		
	Address:		2020 BRU	JCK ST			
	City / State / Z			BUS / OH / 43207			
	US-CHEMTR						
	US-CHEMTR	EC Phone(I	I): (703)527–	-3887			
	CAN-CANUT	EC Phone:	(613)996-	-6666			
	Vendor Upda		10/3/2001				
	Date Prepared		8/5/2003				
	MSDS Numbe	er:	F5261 ; F5	5262QT ;			
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				ility: Serious(3)			
				/Reactivity: Minima	1(0)		
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	READILY ACCUMULATE IN CONFINED OR POORLY VENTILATED AREAS.
Signs and Symptoms of Exposure:	REPEATED AND PROLONGED OVEREXOSURE TO THE MIXTURE OF SOLVENT(S) LISTED IN SECTION II CAN RESULT IN SYSTEMIC EFFECTS INCLUDING PERMANENT BRAIN, NERVOUS SYSTEM, LIVER, AND KIDNEY DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. TARGET ORGANS: PROLONGED OR REPEATED OVEREXPOSURE MAY CAUSE EYE, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, PERIPHERAL NERVOUS SYSTEM, LIVER AND KIDNEY DAMAGE.
	IV. FIRST AID MEASURES
Eyes:	HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
Skin:	WASH WITH SOAP AND WATER. CONTACT A PHYSICIAN IF IRRITATION DEVELOPS OR PERSISTS.
Ingestion:	CALL POISON CONTROL CENTER IMMEDIATELY. FOLLOW THEIR SPECIFIC INSTRUCTIONS. DO NOT INDUCE VOMITING.
Inhalation:	REMOVE TO FRESH AIR. IF DIFFICULTY PERSISTS SEEK MEDICAL ATTENTION.
Other:	EPINEPHERINE AND OTHER SYMPATHOMIMETIC DRUGS MAY INITIATE CARDIAC ARRHYTHMIAS (IRREGULAR BEATING) IN PERSONS EXPOSED TO HIGH CONCENTRATIONS OF HEXANE (E.G. IN ENCLOSED SPACES OR WITH DELIBERATE ABUSE). IF USED, MONITOR HEART ACTION CLOSELY. CONSIDER USE OF OTHER DRUGS WITH LESS ARRHYTHMOGENIC POTENTIAL.
	V. FIRE FIGHTING MEASURES
Flash Point:	<0F
Test Method:	SETAFLASH
Test Method: Lower Flammability Limit:	
	1.2%
Lower Flammability Limit:	1.2%
Lower Flammability Limit: Upper Flammability Limit: Extinguishing Agents:	1.2% 12.8% USE ALCOHOL FOAM, CARBON DIOXIDE, OR DRY CHEMICAL WHEN FIGHTING
Lower Flammability Limit: Upper Flammability Limit: Extinguishing Agents: Unusual Fire or Explosion	1.2% 12.8% USE ALCOHOL FOAM, CARBON DIOXIDE, OR DRY CHEMICAL WHEN FIGHTING FIRES INVOLVING THIS PRODUCT. OXIDES OF CARBON MAY BE RELEASED DURING COMBUSTION.
Lower Flammability Limit: Upper Flammability Limit: Extinguishing Agents: Unusual Fire or Explosion Hazards:	 1.2% 12.8% USE ALCOHOL FOAM, CARBON DIOXIDE, OR DRY CHEMICAL WHEN FIGHTING FIRES INVOLVING THIS PRODUCT. OXIDES OF CARBON MAY BE RELEASED DURING COMBUSTION. WEAR A NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WATER MAY BE INEFFECTIVE, BUT MAY BE USED TO COOL EXPOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO IGNITION OR EXPLOSION
Lower Flammability Limit: Upper Flammability Limit: Extinguishing Agents: Unusual Fire or Explosion Hazards: Fire Fighting Procedures:	 1.2% 12.8% USE ALCOHOL FOAM, CARBON DIOXIDE, OR DRY CHEMICAL WHEN FIGHTING FIRES INVOLVING THIS PRODUCT. OXIDES OF CARBON MAY BE RELEASED DURING COMBUSTION. WEAR A NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WATER MAY BE INEFFECTIVE, BUT MAY BE USED TO COOL EXPOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. FLAMMABLE CLASS (OSHA) IB. FLAMMABLE LIQUID. CAN FORM

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	PLACE IN AN APPROVED CONTAINER.
Other:	EMERGENCY MEASURES: ISOLATE HAZARD AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING AREA. WEAR ALL APPROPRIATE PERSONAL PROTECTION EQUIPMENT (PPE).
	VII. HANDLING AND STORAGE
Other:	HANDLING: AVOID BREATHING VAPORS FROM THE HEADSPACE OF CONTAINERS. KEEP LID CLOSED WHEN NOT IN USE. USE ONLY IN WELL VENTILATED AREA. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. CONTAINERS MAY RETAIN PRODUCT RESIDUES AND VAPORS. STORAGE: KEEP AWAY FROM SOURCES OF IGNITION. DO NOT STORE ABOVE 110°F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FROM STORAGE OF NFPA CLASS 1–B FLAMMABLE MATERIALS.
	VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION
Eyes:	CHEMICAL SPLASH GOGGLES (ANSI Z87.1 OR APPROVED EQUIVALENT).
Skin:	WHERE SKIN CONTACT CAN OCCUR, WEAR IMPERVIOUS GLOVES.
Respiratory:	WHERE EXPOSURE LIMITS MAY BE EXCEEDED SELECT A NIOSH APPROVED RESPIRATOR WITH APPROPRIATE PROTECTION FACTOR AND CARTRIDGE FOR THE SPECIFIC CONTAMINANTS. FOLLOW REQUIREMENTS FOR RESPIRATORY PROTECTION IN OSHA 1910.134.
Engineering:	USE LOCAL EXHAUST AS NEEDED TO MAINTAIN OCCUPATIONAL EXPOSURE LIMITS. MAINTAIN STANDARD PLANT VENTILATION.
Other:	FACILITIES STORING OR UTILIZING ANY CHEMICAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.
	IX. PHYSICAL AND CHEMICAL PROPERTIES
Appearance:	BEIGE MASTIC
Boiling Point:	121°F
pH:	NOT APPLICABLE
Solubility in Water:	NIL
Specific Gravity:	1.08
Volatile Content:	% VOLATILE: 34% VOC: 282 G/L
Other:	EVAPORATION RATE: FASTER THAN N-BUTYL ACETATE.
	X. STABILITY AND REACTIVITY
Stability:	THIS PRODUCT IS STABLE
Hazardous Polymerizatio	n: WILL NOT OCCUR
Hazardous Decompositio Products:	n WILL NOT OCCUR
Incompatible Products:	STRONG OXIDIZING AGENTS, ACIDS AND BASES
Conditions To Avoid:	HEAT, SPARKS, OPEN FLAME

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:	ACETONE – ACUTE: ACETONE HAS A LOW ORDER OF ACUTE AND INHALATION TOXICITY. ACETONE IS A SLIGHT SKIN IRRITANT AND MODERATELY SEVERE EYE IRRITANT. EXCESSIVE INHALATION CAN CAUSE HEADACHE, DRUNKENNESS, AND WEAKNESS. ACETONE – CHRONIC: KIDNEY DAMAGE AND ANEMIA CAN RESULT FROM SUSTAINED HIGH LEVEL EXPOSURE. ACETONE IS REPORTED TO POTENTIATE THE LIVER TOXICITY OF CHLOROFORM. HEXANE – ACUTE: INGESTION OF HEXANE CAN CAUSE NAUSEA, VOMITING, STOMACH PAIN, AND DIARRHEA. HEXANE CAN IRRITATE THE SKIN AND EYES. ACUTELY, THE MOST COMMON TOXIC EFFECTS ARE CENTRAL NERVOUS SYSTEM DEPRESSION AND CHEMICAL PNEUMONITIS RESULTING FROM ASPIRATION INTO THE LUNGS FOLLOWING INGESTION. HEXANE – CHRONIC: DERMAL IRRITATION AND CENTRAL NERVOUS SYSTEM DEPRESSION ACCOMPANIED BY PERIPHERAL SYSTEM DAMAGE (POLYNEUROPATHY) ARE COMMON TRAITS OF SUSTAINED OVEREXPOSURE. TOLUENE ACUTE TOLUENE IS A CENTRAL NERVOUS SYSTEM DEPRESSANT AND SKIN AND MUCOUS MEMBRANE IRRITANT. SEVERE DERMATITIS MAY RESULT FROM ITS DRYING AND DEFATTING ACTION. TOLUENE IS AN ASPIRATION HAZARD CAUSING CHEMICAL PNEUMONITIS. TOLUENE CHRONICCAUSE CARDIAC SENSITIZATION. IT IS TOXIC TO THE KIDNEY, LIVER AND CAN CAUSE EFFECTS ON THE BLOOD SYSTEM SUCH AS INCREASED CLOTTING TIME. TOLUENE MAY BE HARMFUL TO THE HUMAN FETUS BASED ON POSITIVE TEST RESULTS IN LABORATORY ANIMALS. CASE STUDIES SHOW
	THAT PROLONGED INTENTIONAL ABUSE OF TOLUENE DURING PREGNANCY CAN CAUSE BIRTH DEFECTS IN HUMANS.
Special Hazard Information:	REPRODUCTIVE TOXICITY: TOLUENE MAY BE HARMFUL TO THE HUMAN FETUS BASED ON POSITIVE TEST RESULTS WITH LABORATORY ANIMALS. CASE STUDIES SHOW THAT PROLONGED INTENTIONAL ABUSE OF TOLUENE DURING PREGNANCY CAN CAUSE BIRTH DEFECTS IN HUMANS. TARGET ORGANS: PROLONGED OR REPEATED OVEREXPOSURE MAY CAUSE EYE, SKIN, RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM, PERIPHERAL NERVOUS SYSTEM, LIVER AND KIDNEY DAMAGE.
	XII. ECOLOGICAL INFORMATION
Other:	THIS FORMULATION HAS NOT BEEN TESTED FOR ENVIRONMENTAL EFFECTS.
	XIII. DISPOSAL CONSIDERATIONS
Disposal Method:	WASTE DISPOSAL: DISPOSAL OF THIS PRODUCT MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. CONTAINER DISPOSAL: DISPOSAL OF THIS CONTAINER MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
	XIV. TRANSPORT INFORMATION
D.O.T. Shipping Name:	CONSUMIER COMMODITY
Other:	FOR ANY 10.5 OUNCE SIZE OF THIS PRODUCT AND FOR ALL 29 OUNCE TO 1 GALLON SIZES OF THIS PRODUCT NOT SHIPPED BY AIR: DOT: UN NUMBER: NONE UN PACK GROUP: NOT APPLICABLE UN CLASS: ORM-D SHIPPING NAME: CONSUMER COMMODITY AIR: UN NUMBER: ID8000 UN PACK GROUP: NOT APPLICABLE UN CLASS: 9 ICAO/IATA CLASS: 9 SHIPPING NAME: CONSUMER COMMODITY MARITIME: UN NUMBER: NONE UN PACK GROUP: NOT APPLICABLE UN CLASS: NOT APPLICABLE IMDG CLASS: NOT APPLICABLE UN CLASS: NOT APPLICABLE IMDG CLASS: NOT APPLICABLE SHIPPING NAME: DANGEROUS GOODS IN LIMITED QUANTITIES OF CLASS 3 FOR AIR SHIPMENTS OF 29 OUNCE TO 1 GALLON SIZES OF THIS PRODUCT OR ANY SHIPMENT OF THIS PRODUCT IN MORE THAN A ONE GALLON CONTAINER: UN NUMBER: UN1133 UN PACK GROUP: III UN CLASS: 3 ICAO/IATA CLASS: 3 IMDG

CRL Online

	CLASS: 3 SHIPPING NAME: ADHESIVES CONTAINING A FLAMMABLE			
	LIQUID PACKAGING MAY NOT BE APPROVED FOR SHIPPING BY AIR.			
	XV. REGULATORY INFORMATION			
TSCA Status:	ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY			
	EXCEPT AS EXEMPTED.			
EPA Sara Title III Chemical SECTION 313: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC				
Listings:	CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF			
	THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986			
	AND OF 40 CFR 372: Chemical HEXANE CAS# 110–54–3 % Wt. 13.18 Chemical			
	TOLUENE CAS# 10888-3 % Wt. 8.31			
California:	PROP 65 (TERATOGEN) WARNING: THIS PRODUCT CONTAINS A			
	CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS			
	OR OTHER REPRODUCTIVE HARM: < BR>Chemical TOLUENE CAS# 10888-3			
	% Wt. 8.31			
New Jersey:	Chemical CLAY CAS# 1332–58–7 Chemical PETROLEUM HYDROCARBON RESIN			
	CAS# 68131-99-7 Chemical STYRENE-BUTADIENE RUBBER CAS# 9003-55-8			
	Chemical ACETONE CAS# 67-64-1 Chemical HEXANE CAS# 110-54-3			
Pennsylvania:	HAZARDOUS COMPONENTS REQUIRED TO BE LISTED AT 1% OR MORE: 			
i onnoyivania.	Chemical ACETONE; 2–PROPANE CAS# 67–64–1 Chemical TOLUENE,			
	BENZENE, METHYL- CAS# 10888-3 Chemical KAOLIN CLAY; KAOLIN CAS#			
	1332–58–7 Chemical HEXANE; HEXANE CAS# 110–54–3 Chemical CRYSTALLINE			
	SILICA; QUARTZ CAS# 14808-60-7 NON - HAZARDOUS INGREDIENTS			
	REQUIRED TO BE LISTED AT 3% PETROLEUM HYDROCARBON RESIN CAS# 68131–99–7 PETROLEUM HYDROCARBON RESIN CAS# 68132–00–3 			
	STYRENE-BUTADIENE RUBBER CAS# 9003-55-8			
Other:	CARCINOGENICITY: IARC, NTP, OSHA: NO			

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER

THEY ARE APPROPRIATE.