08012002	MATERIAL SAFETY DATA S	SHEET : 00002326	PAGE:1
¢ c	CANADA COLORS & (80 SCARSD DON MILLS, ONTARIO (416)-44	ALE ROAD , CANADA M3B 2R7	
RODUCT : SU	LPHURIC ACID 98/	99%	CODE: 899187
ECTION 01: CHE	MICAL PRODUCT AND COM	PANY IDENTIFICATI	ON
	SULCO CHEM 60 FIRST S ELMIRA, ON N3B 2Z5 ENVIRONMEN	TREET EAST TARIO	DEPARTMENT
PRODUCT NAME	TEJUL 29/2002		
CHEMICAL FORMU MOLECULAR WEIG CHEMICAL FAMIL	LAH2SO4 HT98.07 YINORGANIC BATTERY AC	ID. FERTILIZERS. PICKLING TE WATER TREATMENT	AGENT. DEHYDRATING
EMERGENCY PHON	AGENI. WAS		
ECTION 02: COM	POSITION/INFORMATION	ON INGREDIENTS	
HAZARDOUS INGREDIEN	TS EXPOSURE LEVELS	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES
** AS PER % ***			
SULPHURIC ACID % :70-100 CAS #:7664-93-9	1 MG/M3 TWA (ACGIH 1993-94)	2140 MG/KG (ORL-RAT)	510 MG/M3/2H (RAT, IHL)
ECTION 03: HAZ	ARDS IDENTIFICATION		
SKIN ABS EYE CONT INHALATI	TACTCONTACT OF CAUSES SEVI NECROSIS AI PROLONGED (IRRITATION ORPTIONN.AV. ACTCONTACT OF PERMANENT I ONMISTS AND RESPIRATORI NCAN CAUSE S THROAT AND	ERE IRRITATION AND PAIN A ND PERMANENT INJURY. FOR OR REPEATED CONTACT MAY C LIQUID WILL CAUSE SEVERE IMPAIRMENT OF VISION, EVE VAPOURS MAY CAUSE SEVERE Y TRACT.	ND MAY CAUSE BURNS, DILUTE SOLUTIONS:. AUSE DRYING, CRACKING OR BURNS. MAY RESULT IN N BLINDNESS. IRRITATION TO THE N LIPS, MOUTH, TONGUE, A, VOMITING, AND

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SECTION 05: FIRE FIGHTING MEASURES

UPPER FLAMMABLE LIMIT (% BY.....N.AP. VOL.) LOWER FLAMMABLE LIMIT (% BY.....N.AP. VOL.) EXPLOSION DATA EXPLOSIVE POWER.....N.AV. RATE OF BURNING.....N.AV. SENSITIVITY TO STATIC.....N.AV. DISCHARGE SENSITIVITY TO IMPACT.....N.AV. UNUSUAL FIRE AND EXPLOSION......EVOLUTION OF EXPLOSIVE HYDROGEN GAS ON CONTACT WITH MOST METALS. TOXIC GASES (SULPHURIC ACID FUMES, SULPHUR DIOXIDE HAZARDS AND CARBON MONOXIDE) MAY BE RELEASED DUE TO THERMAL DECOMPOSITION. HAZARDOUS COMBUSTION PRODUCTS....SULPHURIC ACID DECOMPOSITION MAY RESULT IN THE RELEASE OF TOXIC GASES (SULPHURIC ACID FUMES, SULPHUR DIOXIDE, CARBON MONOXIDE).

SECTION 06: ACCIDENTAL RELEASE MEASURES

PROTECTIVE CLOTHING, INCLUDING BOOTS AND SELF-CONTAINED BREATHING APPARATUS. CONTAIN SPILL IN ORDER TO PREVENT CONTAMINATION OF SEWAGE SYSTEM OR WATERWAY. REMOVE ALL SOURCES OF IGNITION. IF POSSIBLE NEUTRALIZE ON A DRY BASIS WITH SUITABLE ALKALI SUCH AS LIME, SODA ASH OR SODIUM BICARBONATE. FLUSH WITH WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS. PUMP SPILLED MATERIAL INTO MARKED CONTAINERS FOR RECLAMATION OR DISPOSAL. FOLLOW ALL APPLICABLE FIRE AND EXPLOSION PRECAUTIONS DURING THE SPILL RESPONSE PROCEDURE.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES ANDAVOID ALL SKIN CONTACT. AVOID GETTING IN EYES. KEEP AWAY EOUIPMENT FROM HEAT, SPARKS, AND OPEN FLAME. USE ADEOUATE VENTILATION. KEEP CONTAINERS CLOSED OR SEALED. WEAR

08012002 MATERIAL SAFETY DATA SHEET : 00002326 PAGE:4 PRODUCT : SULPHURIC ACID 98/99% CODE: 899187 SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION GLOVES/ TYPE.....PVC OR NEOPRENE. RESPIRATORY/TYPE.....USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR EYE/TYPE.....SPLASH PROOF CHEMICAL GOGGLES FOOTWEAR/TYPE.....BOOTS CLOTHING/TYPE......WEAR IMPERVIOUS PROTECTIVE CLOTHING OTHER/TYPE......EYE BATH AND SAFETY SHOWER. ENGINEERING CONTROLS.....VENTILATE ADEQUATELY. SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL STATE.....LIQUID ODOUR THRESHOLD.....>1 MG/M3 VAPOUR PRESSURE (MMHG).....0.0018 EVAPORATION RATE.....N.AP. 98.00% : 334 C. 100% : 274 C PH.....<1 SPECIFIC GRAVITY (WATER=1).....70%: N.AV. 80%: N.AV. 93.19% : 1.8354. 96.00% : 1.8427. 98.00% : 1.8437. 100% : 1.8391 SOLUBILITY IN WATER (% W/W).....MISCIBLE COEFFICIENT OF WATER/OIL DIST....N.AV. SECTION 10: STABILITY AND REACTIVITY CHEMICAL STABILITY: YES.....YES NO, WHICH CONDITIONS? COMPATABILITY WITH OTHER SUBSTANCES: VES NO, WHICH ONES?......HIGHLY REACTIVE WITH MANY MATERIALS INCLUDING WATER, METALS, METAL OXIDES, CARBIDES, CHLORATES, PICRATES, NITRATES, HYDROXIDES, AMINES, CARBONATES AND OTHER ALKALINE MATERIALS. REACTIONS CAN GENERATE A GREAT DEAL OF HEAT AS DOES THE DILUTION OF ACID WITH WATER. IGNITION OF COMBUSTIBLE MATERIAL ON CONTACT WITH GENERATION OF TOXIC FUMES. AVOID OPEN FLAMES AND SPARKS. REACTIVITY CONDITIONS?.....EXCESSIVE HEAT, SPARKS AND OPEN FLAME. HAZARDOUS PRODUCTS OF.....SEE HAZARDOUS COMBUSTION PRODUCTS DECOMPOSITION HAZARDOUS POLYMERIZATION WILL NOT OCCUR SECTION 11: TOXICOLOGICAL INFORMATION EXPOSURE LIMIT OF MATERIAL.....1 MG/M3 (0.25 PPM)

08012002 MATERIAL SAFETY DATA SHEET : 00002326 PAGE:5 CODE: 899187 PRODUCT : SULPHURIC ACID 98/99% SECTION 11: TOXICOLOGICAL INFORMATION CARCINOGENICITY OF MATERIAL..... WHO AND IARC HAVE CONCLUDED THAT OCCUPATION EXPOSURE TO STRONG INORGANIC ACID MISTS CONTAINING SULFURIC ACID IS CARCINOGENIC TO MAN, CAUSING CANCER OF THE LARYNX AND, TO A LESSER EXTENT, THE LUNG. EXPOSURE TO ANY MIST OR AEROSOL DURING THE USE OF THIS PRODUCT SHOULD BE AVOIDED AND, IN ANY CASE, KEEP EXPOSURES BELOW THE OCCUPATIONAL EXPOSURE LIMIT FOR SULFURIC ACID. REPRODUCTIVE EFFECTS.....NONE SENSITIZING CAPABILITY OF......REPEATED EXPOSURE TO SULPHURIC ACID MIST MAY INCREASE MATERIAL TOLERANCE OF IRRITANT EFFECTS. SENSITIZATION CAN DEVELOP AFTER BRIEF OR PROLONGED EXPOSURE, SUBSEQUENT EXPOSURES CAN RESULT IN ASTHMATIC ATTACKS. SYNERGISTIC MATERIALS.....NONE SECTION 12: ECOLOGICAL CONSIDERATIONS SECTION 13: DISPOSAL CONSIDERATIONS REGULATIONS. SECTION 14: TRANSPORT INFORMATION PACKING GROUP.....II SPECIAL SHIPPING INSTRUCTIONS.... ERAP REQUIRED FOR LARGE MEANS OF CONTAINMENT. SECTION 15: REGULATORY INFORMATION WHMIS CLASSIFICATION......D1A. E CPR COMPLIANCE.....THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR. SECTION 16: OTHER INFORMATION N.AV.=NOT AVAILABLE N.AP.=NOT APPLICABLE