MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- --- CHEMICAL IDENTIFICATION --- --- ---

CATALOG #: L4390
NAME: LAURYL SULFATE SODIUM MOLECULAR BIOLOGY REAGENT

SECTION 2. --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- ---

CAS #: 151-21-3
MF: C12H25NAO4S
EC NO: 205-788-1

SYNONYMS
A13-00356 * AKYPOSAL SDS * AQUAREX ME * AQUAREX METHYL * AVIROL 101 * AVIROL 118 CONC * BEROL 452 * CARSONOL SLS * CARSONOL SLS PASTE B * CARSONOL SLS SPECIAL * CONCO SULFATE WA * CONCO SULFATE WA-1200 * CONCO SULFATE WA-1245 * CONCO SULFATE WAG * CONCO SULFATE WAM * CONCO SULFATE WAS * CONCO SULFATE WN * CP 75424 * CYCLORYL 21 * CYCLORYL 31 * CYCLORYL 580 * CYCLORYL 585N * DEHYD SULFATE GL EMULSION * DEHYD SULFATE GL EMULSION * DETERGENT 66 * DODECAYL ALCOHOL * HYDROGEN SULFATE, SODIUM SALT * DODECAYL SODIUM SULFATE * DODECAYL SULFATE SODIUM * N-DODECAYL SULFATE SODIUM * DODECAYL SULFATE, SODIUM SALT * DREW * DUFONAL * DUFONAL WAQ * DUFONOL * DUFONOL C * DUFONOL ME * DUFONOL METHYL * DUFONOL OK * DUFONAL WA * DUFONAL WAQ * DUFONAL WAQ * DUFONAL WAQM * EMERAL 10 * EMERAL 6490 * EMUCOL LP2 * EMUCOL LS 30 * EMUCOL LS 28 * EMULSIFIER NO. 104 * FINASOL OSR(SUB-2) * GARDING WAX * HEXANOL SLS * INCORONOL SLS * IRIUM * JORDANOL SL-300 * LANTANET WAX-S * LAURYLSTEARAN SODN. (CZECH) * LAURYL SODIUM SULFATE * LAURYL SULFATE SODIUM SALT * MAPROFI 563 * MAPROFI LK * MAPROFI NEU * MAPROFI WAC * MAPROFI WAC * WAC-LA * MELANOL CL * MELANOL CL 30 * MONODODECAYL SODIUM SULFATE * MONOGEN Y 100 * MONTOPOL LA PASTE * NCI-C50191 * NEUTRAZYM * NIKKOL SLS * ODORIPON AL 95 * ORVUS WA PASTE * P AND G EMULSIFIER 104 * PERLANDROL L * PRODUCT NO. 75 * PRODUCT NO. 161 * QUOLAC EX-UB * RENOPOL NLS 30 * RICHONOL A * RICHONOL AF * RICHONOL C * SDS * SFINNOPON LS 95 * SFINNOPON LS 100 * SINTAPON L * SIIPEX OP * SIIPEX SP * SIIPEX SP * SIIPEX UD * SIPON LS * SIPON LS 100 * SIPON LSB * SIPON PD * SIPON WD * SLS * SODIUM DODECAYL SULFATE * SODIUM N-DODECAYL SULFATE * SODIUM LAURYL SULFATE * SODIUM MONODODECAYL SULFATE * SODIUM MONOLAU RYL SULFATE * SODIUM NEEDLES * STANDAPOL 112 CONC * STANDAPOL WA-AC * STANDAPOL WAO * STANDAPOL WAO SPECIAL * STANDAPOL WAO SPECIAL * STANDAPOL WAO SPECIAL * STEINAPOL NLS 90 * STEINAPOL ME * STEINAPOL ME DRY * STEINAPOL ME DRY AW * STEINAPOL METHYL DRY AW * STEINAPOL T 28 * STEINAPOL WA * STEINAPOL WA-100 * STEINAPOL WAC * STEINAPOL WA PASTE * STEINAPOL WAQ * STEINAPOL WAQ * STEINAPOL WAQ-CH * STEINAPOL WAQ-COSMETIC * SULFETAL 95 * SULFOPON WA 1 * SULFOPON WA 2 * SULFOPON WA 3 * SULFOPON WA 1 SPECIAL * SULFOTEX WA * SULFOTEX WALE * SWACOL 3L * SWACOL 4L * SWACOL 1P * SYNTAPON L * SYNTAPON L * SYNTAPON L PASTE (CZECH) * TARAPON K 12 * TEXAPON DL CONC. * TEXAPON K 12 * TEXAPON K -

CONTINUED ON NEXT PAGE
SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

CUST#: 0-495-04629
PO#: CC/031799

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CATALOG #: L4390
NAME: LAURIYL SULFATE SODIUM MOLECULAR BIOLOGY REAGENT
1296 * TEXAPON L 100 * TEXAPON V HC * TEXAPON V HC POWDER * TEXAPON ZHC * TEXAPON Z HIGH CONC. NEEDLES * TREPENOL WA * TVM 474 * ULTRA SULFATE SL-1 * WAQE * WITCOLATE A * WITCOLATE A POWDER * WITCOLATE C *

SECTION 3. - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - -
 LABEL PRECAUTIONARY STATEMENTS
 TOXIC (USA)
 HARMFUL (EU)
 HARMFUL BY INHALATION AND IF SWALLOWED.
 MAY CAUSE SENSITIZATION BY INHALATION.
 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
 RISK OF SERIOUS DAMAGE TO EYES.
 STERNUTATOR.
 TARGET ORGAN(S):
 LUNGS
 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
 WEAR SUITABLE PROTECTIVE CLOTHING.
 DO NOT BREATHE DUST.

SECTION 4. - - - - - - - - FIRST-AID MEASURES- - - - - - - -
 IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
 ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.
 IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN.
 IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
 CALL A PHYSICIAN.
 WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - -
 EXTINGUISHING MEDIA
 WATER SPRAY.
 CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
 SPECIAL FIREFIGHTING PROCEDURES
 WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
 UNUSUAL FIRE AND EXPLOSIONS HAZARDS
 EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - - -
 EVACUATE AREA.
 WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY CONTINUED ON NEXT PAGE

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CATALOG #: L4390
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RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - - - - HANDLING AND STORAGE - - - - - - - - - -

REFER TO SECTION 8.

SECTION 8. - - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - - -
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
AVOID INHALATION.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
TOXIC.
IRRITANT.
STRONG SENSITIZER.
STERNUTATOR.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - - - -
APPEARANCE AND ODOR
WHITE POWDER

PHYSICAL PROPERTIES
MELTING POINT: 204 C TO 207 C

SECTION 10. - - - - - - STABILITY AND REACTIVITY - - - - - - - - - -
INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
SULFUR OXIDES

SECTION 11. - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -
ACUTE EFFECTS
HARMFUL IF INHALED OR SWALLOWED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.

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MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.
MAY CAUSE ALLERGIC RESPIRATORY REACTION.
CAUSES SNEEZING. DO NOT INHALE.
THE SODIUM SALT OF DODECYL SULFATE HAS BEEN REPORTED TO CAUSE PULMONARY SENSITIZATION RESULTING IN HYPERACTIVE AIRWAY DYSFUNCTION AND PULMONARY ALLERGY ACCOMPANIED BY FATIGUE, MALAISE AND ACHING.
SIGNIFICANT SYMPTOMS OF EXPOSURE CAN PERSIST FOR MORE THAN TWO YEARS AND CAN BE ACTIVATED BY A VARIETY OF NONSPECIFIC ENVIRONMENTAL STIMULI SUCH AS AUTOMOBILE EXHAUST, PERFUMES AND PASSIVE SMOKING.

CHRONIC EFFECTS:
TARGET ORGAN(S):
LUNGS
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: WT1050000
SULFURIC ACID, MONODODECYL ESTER, SODIUM SALT

IRRITATION DATA
| SKN-HMN 250 MG/24H MLD | TXAPA9 31,481,1975 |
| SKN-HMN 25 MG/24H MLD | JSCCA5 23,371,1972 |
| SKN-MUS 25 MG/24H MOD | JSCCA5 23,371,1972 |
| SKN-DOG 25 MG/24H MLD | JSCCA5 23,371,1972 |
| SKN-RBT 50 MG/24H SEV | BIOFX* 23-3/1971 |
| SKN-RBT 25 MG/24H MOD | JSCCA5 23,371,1972 |
| SKN-RBT 250 MG/24H MOD | TXAPA9 31,481,1975 |
| SKN-RBT 10 MG/24H | DCTODJ 1,305,1978 |
| SKN-RBT 50 MG/24H MLD | TXAPA9 21,369,1972 |
| EYE-RBT 100 MG/24H MOD | 28ZPAK - 305,1972 |
| EYE-RBT 250 UG MLD | AROPW 34,951,1945 |
| EYE-RBT 2 MG | DCTODJ 1,305,1978 |
| EYE-RBT 10 MG MOD | TXAPA9 55,501,1980 |
| SKN-PIN 25 MG/24H MLD | JSCCA5 23,371,1972 |
| SKN-GPG 25 MG/24H MLD | JSCCA5 23,371,1972 |

TOXICITY DATA
| ORL-RAT LD50:1288 MG/KG | FCTXAV 5,763,1967 |
| IHL-RAT LC50:3900 MG/M3/1H | BIOFX* 23-3/1971 |
| IPR-RAT LD50:210 MG/KG | PSTGAW 3,1,1945 |
| IVN-RAT LD50:118 MG/KG | JPSMSE 52,803,1963 |
| IVN-MUS LD50:118 MG/KG | JPSMSE 45,283,1963 |
| IVN-MUS LD50:118 MG/KG | JPSMSE 52,803,1963 |

TARGET ORGAN DATA
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)

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VASCULAR (REGIONAL OR GENERAL ARTERIOLAR OR VENOUS DILATION) EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY) ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

SECTION 12. - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - - - - DISPOSAL CONSIDERATIONS - - - - - - - -
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - - - - TRANSPORT INFORMATION - - - - - - - -
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - - - REGULATORY INFORMATION - - - - - - - -
EUROPEAN INFORMATION
HARMFUL
R 20/22
HARMFUL BY INHALATION AND IF SWALLOWED.
R 42
MAY CAUSE SENSITIZATION BY INHALATION.
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R 41
RISK OF SERIOUS DAMAGE TO EYES.
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.
S 22
DO NOT BREATHE DUST.

REVIEWS, STANDARDS, AND REGULATIONS
OEL=MAK
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION PIERCE 54,7740 1989
NOHs 1974: HZD 81990; NIS 167; TNF 32028; NOS 113; TNE 388848
NOBS 1993: HZD 81990; NIS 232; TNF 46312; NOS 170; TNE 886968; TFE 415360
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA SECTION 8(E) RISK NOTIFICATION, 8EHQ-0892-8800
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EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, DECEMBER 1998

SECTION 16. OTHER INFORMATION

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