



SIGMA-ALDRICH

SIGMA CHEMICAL COMPANY  
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DATE 03/17/99  
CUST#: 0-495-04629  
PO#: CC/031799

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 1

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

AI3-00356 \* 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 WAN \* CONCO  
SULFATE WAS \* CONCO SULFATE WN \* CP 75424 \* CYCLORYL 21 \* CYCLORYL 31  
\* CYCLORYL 580 \* CYCLORYL 585N \* DEHYDAG SULFATE GL EMULSION \*  
DEHYDAG SULPHATE GL EMULSION \* DETERGENT 66 \* DODECYL ALCOHOL  
HYDROGEN SULFATE, SODIUM SALT \* DODECYL SODIUM SULFATE \* DODECYL  
SULFATE SODIUM \* N-DODECYL SULFATE SODIUM \* DODECYL SULFATE, SODIUM  
SALT \* DREFT \* DUPONAL \* DUPONAL WAOE \* DUPONOL \* DUPONOL C \* DUPONOL  
ME \* DUPONOL METHYL \* DUPONOL OX \* DUPONOL WA \* DUPONOL WA DRY \*  
DUPONOL WAO \* DUPONOL WAOA \* DUPONOL WAOE \* DUPONOL WAQM \* EMAL O \*  
EMAL 10 \* EMERSAL 6400 \* EMPICOL LPZ \* EMPICOL LS 30 \* EMPICOL LX 28 \*  
EMULSIFIER NO. 104 \* FINASOL OSR(SUB 2) \* GARDINOL \* HEXAMOL SLS \*  
INCRONOL SLS \* IRIUM \* JORDANOL SL-300 \* LANETTE WAX-S \* LAURYL SIRAN  
SODNY (CZECH) \* LAURYL SODIUM SULFATE \* LAURYL SULFATE, SODIUM SALT \*  
MAPROFIX 563 \* MAPROFIX LK \* MAPROFIX NEU \* MAPROFIX WAC \* MAPROFIX  
WAC-LA \* MELANOL CL \* MELANOL CL 30 \* MONODODECYL SODIUM SULFATE \*  
MONOGEN Y 100 \* MONTOPOL LA PASTE \* NCI-C50191 \* NEUTRAZYME \* NIKKOL  
SLS \* ODORIPON AL 95 \* ORVUS WA PASTE \* P AND G EMULSIFIER 104 \*  
PERLANDROL L \* PRODUCT NO. 75 \* PRODUCT NO. 161 \* QUOLAC EX-UB \*  
REWOPOL NLS 30 \* RICHONOL A \* RICHONOL AF \* RICHONOL C \* SDS \*  
SINNOPON LS 95 \* SINNOPON LS 100 \* SINTAPON L \* SIPEX OP \* SIPEX SB \*  
SIPEX SD \* SIPEX SP \* SIPEX UB \* SIPON LS \* SIPON LS 100 \* SIPON LSB \*  
SIPON PD \* SIPON WD \* SLS \* SODIUM DODECYL SULFATE \* SODIUM N-  
DODECYL SULFATE \* SODIUM DODECYL SULPHATE \* SODIUM LAURYL SULFATE \*  
SODIUM LAURYL SULPHATE \* SODIUM MONODODECYL SULFATE \* SODIUM  
MONOLAURYL SULFATE \* SOLSOL NEEDLES \* STANDAPOL 112 CONC \* STANDAPOL  
WA-AC \* STANDAPOL WAO \* STANDAPOL WAO SPECIAL \* STANDAPOL WAS 100 \*  
STEINAPOL NLS 90 \* STEPANOL ME \* STEPANOL ME DRY \* STEPANOL ME DRY AW  
\* STEPANOL METHYL \* STEPANOL METHYL DRY AW \* STEPANOL T 28 \* STEPANOL  
WA \* STEPANOL WA-100 \* STEPANOL WAC \* STEPANOL WA PASTE \* STEPANOL  
WAO \* STERLING WA PASTE \* STERLING WAO-CH \* STERLING WAO-COSMETIC \*  
SULFETAL L 95 \* SULFOPON WA 1 \* SULFOPON WA 2 \* SULFOPON WA 3 \*  
SULFOPON WA 1 SPECIAL \* SULFOTEX WA \* SULFOTEX WALA \* SWASCOL 3L \*  
SWASCOL 4L \* SWASCOL 1P \* SYNTAPON \* SYNTAPON L \* SYNTAPON L PASTA  
(CZECH) \* TARAPON K 12 \* TEXAPON DL CONC. \* TEXAPON K12 \* TEXAPON K-

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CATALOG #: L4390  
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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

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NAME: LAURYL SULFATE SODIUM MOLECULAR BIOLOGY REAGENT

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	AROPAW	34,99,1945
EYE-RBT 2 MG	DCTODJ	1,305,1978
EYE-RBT 10 MG MOD	TXAPA9	55,501,1980
SKN-PIG 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	JPMSAE	52,803,1963
IPR-MUS LD50:250 MG/KG	JAPMA8	42,283,1953
IVN-MUS LD50:118 MG/KG	JPMSAE	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  
FEREAC 54,7740,1989  
NOHS 1974: HZD 81990; NIS 167; TNF 32028; NOS 113; TNE 388848  
NOES 1983: 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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