

Product Number: **L5647**  
Product Name: **Lidocaine Hydrochloride**

Description / Pricing  
Cert. of Analysis  
MSDS  
Print Preview  
Bulk Quote  
Ask A Scientist

Valid 08/2000 - 10/2000  
Sigma Chemical Co.  
P.O. Box 14508  
St. Louis, MO 63178 USA  
Phone: 314-771-5765

6266  
40362  
4307  
13877  
3839  
8831  
10819  
12054

61636  
49575  
361  
363  
357  
372  
10808  
12616

47463  
23120  
6265  
17946  
54951  
3591  
10823  
4300  
40526  
25058  
32170

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

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

CATALOG #: L5647  
NAME: LIDOCAINE HYDROCHLORIDE

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

CAS #: 6108-05-0  
MF: C14H22N2O  
EC NO: 200-803-8

SYNONYMS

ACETAMIDE, 2-(DIETHYLAMINO)-N-(2,6-DIMETHYLPHENYL)-,  
MONOHYDROCHLORIDE (9CI) \* 2',6'-ACETOXYLIDIDE, 2-(DIETHYLAMINO)-,  
MONOHYDROCHLORIDE (8CI) \* ANESTACON HYDROCHLORIDE \* ALPHA-  
DIETHYLAMINO-2,6-ACETOXYLIDINE HYDROCHLORIDE \* 2-DIETHYLAMINO-2',6'-  
ACETOXYLIDIDE HYDROCHLORIDE \* N-(DIETHYLAMINOACETYL)-2,6-  
DIMETHYLANILINE HYDROCHLORIDE \* OMEGA-DIETHYLAMINO-2,6-  
DIMETHYLACETANILIDE HYDROCHLORIDE \* DUNCAINE HYDROCHLORIDE \*  
GRAVOCAIN HYDROCHLORIDE \* ISICAINE HYDROCHLORIDE \* LEOSTESIN  
HYDROCHLORIDE \* LIDOCAIN HYDROCHLORIDE \* LIDOCAINE HYDROCHLORIDE \*  
LIDOTHESIN HYDROCHLORIDE \* LIGNOCAINE HYDROCHLORIDE \* RUCAINA  
HYDROCHLORIDE \* S 202 \* V 262 \* XYCAINE HYDROCHLORIDE \* XYLESTESIN  
HYDROCHLORIDE \* XYLOCAINE HYDROCHLORIDE \* XYLOCARD \* XYLOCITIN  
HYDROCHLORIDE \* XYLONEURAL \* XYLOTOX HYDROCHLORIDE \*

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

TOXIC (USA)  
HARMFUL (EU)  
HARMFUL IF SWALLOWED.  
TARGET ORGAN(S):  
CENTRAL NERVOUS SYSTEM  
HEART

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

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

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- - - - -

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY  
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.  
EVACUATE AREA.

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

REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

USE ONLY IN A CHEMICAL FUME HOOD.  
SAFETY SHOWER AND EYE BATH.

WASH CONTAMINATED CLOTHING BEFORE REUSE.  
WASH THOROUGHLY AFTER HANDLING.  
DO NOT BREATHE DUST.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
CHEMICAL SAFETY GOGGLES.  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -  
APPEARANCE AND ODOR  
SOLID.

PHYSICAL PROPERTIES  
MELTING POINT: 74 - 79 C

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -  
STABILITY  
STABLE.

INCOMPATIBILITIES  
STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
CARBON MONOXIDE, CARBON DIOXIDE  
NITROGEN OXIDES  
HYDROGEN CHLORIDE GAS  
HAZARDOUS POLYMERIZATION  
WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -  
ACUTE EFFECTS  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.  
MAY CAUSE SKIN IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.  
MAY CAUSE EYE IRRITATION.  
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
MAY BE HARMFUL IF INHALED.  
HARMFUL IF SWALLOWED.

CHRONIC EFFECTS  
TARGET ORGAN(S):  
CENTRAL NERVOUS SYSTEM  
HEART

RTECS #: AN7600000  
2',6'-ACETOXYLIDIDE, 2-(DIETHYLAMINO)-, HYDROCHLORIDE

IRRITATION DATA  
SKN-RBT 3% MLD AIPTAK 137,410,1962  
EYE-RBT 3% MLD AIPTAK 137,410,1962

TOXICITY DATA  
IPR-RAT LD50:122 MG/KG JPETAB 111,224,1954  
SCU-RAT LD50:570 MG/KG RPOBAR 2,299,1970  
IVN-RAT LD50:21 MG/KG RPOBAR 2,299,1970  
ORL-MUS LD50:220 MG/KG RPOBAR 2,299,1970  
IPR-MUS LD50:63 MG/KG AIPTAK 274,253,1985  
SCU-MUS LD50:163 MG/KG PSEBAA 103,353,1960  
IVN-MUS LD50:15 MG/KG JPPMAB 14,48T,1962  
IMS-MUS LD50:177 MG/KG DDREDK 21,277,1990  
IVN-RBT LD50:25600 UG/KG NIIRDN 6,879,1982  
ITR-RBT LD50:28 MG/KG AIPTAK 200,359,1972  
IVN-GPG LD50:24500 UG/KG AIPTAK 113,313,1958  
PAR-FRG LD50:159 MG/KG AIPTAK 289,278,1987

TARGET ORGAN DATA  
BEHAVIORAL (ALTERED SLEEP TIME)  
BEHAVIORAL (SOMNOLENCE)  
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
BEHAVIORAL (COMA)  
CARDIAC (CARDIOMYOPATHY INCLUDING INFARCTION)  
CARDIAC (PULSE RATE INCREASED WITHOUT FALL IN BP)  
VASCULAR (BP LOWERING NOT CHARACTERIZED IN AUTONOMIC SECTION)  
LUNGS, THORAX OR RESPIRATION (RESPIRATORY STIMULATION)  
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)  
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 22

HARMFUL IF SWALLOWED.

S 26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOHS 1974: HZD 83491; NIS 3; TNF 397; NOS 5; TNE 13412

NOES 1983: HZD 83491; NIS 6; TNF 1385; NOS 17; TNE 68071; TFE 56919

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: HISTIDINE REVERSION-AMES TEST

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

SECTION 16. - - - - - OTHER INFORMATION- - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA, ALDRICH, FLUKA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

COPYRIGHT 1999 SIGMA-ALDRICH CO.

LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY