



chemists helping chemists in research & industry

**aldrich chemical co.**

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ATTN: SAFETY DIRECTOR  
UNIVERSITY OF WISCONSIN WHITEWATER  
P O BOX 296  
WHITEWATER WI 53190

DATE: 07/31/90  
CUST#: 523216  
PO#: UNA-10754

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

PRODUCT #: D14335-9  
CAS #: 605-65-2  
MF: C12H12CLN02S

NAME: DANSYL CHLORIDE, 98%

SYNONYMS

1-CHLOROSULFONYL-5-DIMETHYLAMINONAPHTHALENE \* DANSYL \* DANSYL  
CHLORIDE \* DIMETHYLAMINONAPHTHALENESULFONYL CHLORIDE \* 1-  
DIMETHYLAMINONAPHTHALENE-5-SULFONYL CHLORIDE \* 1-(DIMETHYLAMINO)-5-  
NAPHTHALENESULFONYL CHLORIDE \* 5-DIMETHYLAMINONAPHTHALENE-1-SULFONYL  
CHLORIDE \* 5-DIMETHYLAMINONAPHTHYL-5-SULFONYL CHLORIDE \*

TOXICITY HAZARDS

RTECS NO: QK3688000

1-NAPHTHALENESULFONYL CHLORIDE, 5-(DIMETHYLAMINO)-

TOXICITY DATA

IVN-MUS LD50: 56 MG/KG

CSLNX\* NX#00262

REVIEWS, STANDARDS, AND REGULATIONS

EPA TSCA CHEMICAL INVENTORY, 1989

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)  
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.  
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCCOUS MEMBRANES  
AND UPPER RESPIRATORY TRACT, EYES AND SKIN.  
INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA  
OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.  
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,  
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND  
VOMITING.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

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.  
DISCARD CONTAMINATED SHOES.

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

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PO#: UNA-10754

PRODUCT #: D14335-9  
CAS #: 605-65-2  
MF: C12H12CLN02S

NAME: DANSYL CHLORIDE, 98%

PHYSICAL DATA

MELTING PT: 72 C TO 74 C  
APPEARANCE AND ODOR  
YELLOW POWDER

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA  
WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER 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.

REACTIVITY DATA

INCOMPATIBILITIES  
STRONG OXIDIZING AGENTS  
STRONG BASES  
MAY DECOMPOSE ON EXPOSURE TO MOIST AIR OR WATER.  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE  
NITROGEN OXIDES  
SULFUR OXIDES  
HYDROGEN CHLORIDE GAS

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
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.  
WASTE DISPOSAL METHOD  
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 LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT  
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.  
SAFETY SHOWER AND EYE BATH.  
USE ONLY IN A CHEMICAL FUME HOOD.

CONTINUED ON NEXT PAGE

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DO NOT BREATHE DUST.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
WASH THOROUGHLY AFTER HANDLING.  
CORROSIVE.  
KEEP TIGHTLY CLOSED.  
MOISTURE SENSITIVE  
STORE UNDER NITROGEN.  
REFRIGERATE.

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