

Material Safety Data Sheet

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Pierce Administration

? Section 1. Chemical Product and Company Identification

Product name **Dabsyl Chloride**

Product No. 0021720 0021700

Supplier	<i>In USA:</i> Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	<i>In Europe:</i> Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	Manufacturer	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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In Case of Emergency CALL CHEMTREC:
800.424.9300
OUTSIDE US:
202.483.7616

Print Date 11/13/2002
Validation Date **11/4/2002**
MSDS# 211

Synonyms 4-Dimethylaminoazobenzene-4'-sulfonyl chloride

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Section 2. Composition, Information on Ingredients

Substance/Preparation : Substance

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>%</u>	<u>EC Number</u>	<u>Symbol</u>	<u>R-Phrases</u>
1) Dabsyl Chloride	56512-49-3	98-100	260-235-1	T	R24/25, R45

Section 3. Hazards Identification

United States Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview DANGER!
CAUSES RESPIRATORY TRACT AND EYE BURNS.
CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER
HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
CAUSES SEVERE SKIN IRRITATION.
CAUSES DAMAGE TO THE FOLLOWING ORGANS: SKIN.
Risk of cancer depends on duration and level of exposure. Do not get in eyes, on skin or on clothing. Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Hazardous in case of eye contact (corrosive), of inhalation (lung corrosive). Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Carcinogenic Effects Data **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Continued on Next Page

Not available.

Europe

Classification	R24/25, R45
<i>Physical/chemical hazards</i>	Not applicable.
<i>Human health hazards</i>	Toxic in contact with skin and if swallowed. May cause cancer.
<i>Environmental hazards</i>	Not applicable.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Notice to Reader Get immediate medical attention.**Effects and symptoms**

<i>Inhalation</i>	Very hazardous in case of inhalation (lung irritant). Hazardous in case of inhalation (lung corrosive). Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Over-exposure by inhalation may cause respiratory irritation.
<i>Ingestion</i>	Very hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat, and stomach.
<i>Skin Contact</i>	Very hazardous in case of skin contact (irritant). corrosive The amount of tissue damage depends on length of contact. Skin contact can produce inflammation and blistering. Severe over-exposure can result in death. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
<i>Eye Contact</i>	Very hazardous in case of eye contact (irritant). Hazardous in case of eye contact (corrosive). Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.
<i>Aggravating conditions</i>	Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

First-Aid Measures

<i>Inhalation</i>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<i>Ingestion</i>	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<i>Skin Contact</i>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
<i>Eye Contact</i>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
<i>Notes to Physician</i>	Not available.
<i>Protection of first-aiders</i>	Not available.



Section 5. Fire Fighting Measures

<i>Flammability of the Product</i>	May be combustible at high temperature.
<i>Flash Points</i>	Not available.
<i>Fire Hazards in Presence of Various Substances</i>	Not available.
<i>Fire Fighting Media and Instructions</i>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<i>Protective Clothing (Fire)</i>	Be sure to use an approved/certified respirator or equivalent.
<i>Hazardous thermal (de)composition products</i>	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), sulfur oxides (SO ₂ , SO ₃ ...), halogenated compounds.

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Section 6. Accidental Release Measures

Personal precautions	Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Environmental Precautions and Clean-up Methods	Corrosive solid. Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.



Section 7. Handling and Storage

Handling Avoid contact with eyes, skin, and clothing. Do not ingest. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Packaging materials

Suitable / Not suitable Use original container.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Exposure Limit Values

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
United States	
1) Dabsyl Chloride	Not available.
Sweden	
1) Dabsyl Chloride	Not available.
Denmark	
1) Dabsyl Chloride	Not available.
Norway	
1) Dabsyl Chloride	Not available.
France	
1) Dabsyl Chloride	Not available.
Netherlands	
1) Dabsyl Chloride	Not available.
Germany	
1) Dabsyl Chloride	Not available.

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Hands Gloves.

Respiratory Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

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Dabsyl Chloride

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Protective Clothing
(Pictograms)



Section 9. Physical and Chemical Properties

Physical State and Appearance Solid. (Solidcrystalline powder.)

Odor Not available.

Molecular Weight 323.82 g/mole

Taste Not available.

Molecular Formula $(\text{CH}_3)_2 \text{NC}_6 \text{H}_4 \text{N} \text{NC}_6 \text{H}_4 \text{SO}_2 \text{Cl}$

Color Red. (Dark.)

Melting/Freezing Point 185°C (365°F)

Dispersion Properties Not available.

Solubility Not available.



Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions to avoid Not available.

Materials to avoid Reactive with oxidizing agents, metals, alkalis, moisture.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...), halogenated compounds.



Section 11. Toxicological Information

Toxicity to Animals LD50: Not available.
LC50: Not available.

Chronic Effects on Humans Causes damage to the following organs: skin.

Other Toxic Effects on Humans Hazardous in case of eye contact (corrosive), of inhalation (lung corrosive).

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

Special Remarks on Other Toxic Effects on Humans Not available.



Section 12. Ecological Information

Mobility Not available.

Persistence/degradability Not available.

Bioaccumulative potential Not available.

Ecotoxicity Not available.

Germany water class VCI WGK: No products were found.

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Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

Consult your local or regional authorities.



Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.



Section 15. Regulatory Information

Label Requirements (Europe)

R24/25- Toxic in contact with skin and if swallowed.
R45- May cause cancer.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28- After contact with skin, wash immediately with plenty of water.
S36- Wear suitable protective clothing.



Toxic

HCS Classification

**Toxic.
Corrosive material**

U.S. Federal Regulations TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) CLASS E: Corrosive solid.

CEPA NDSL: Dabsyl Chloride

International Regulations

EINECS Not available.

DSCL (EEC) R24/25- Toxic in contact with skin and if swallowed.
R45- May cause cancer.

International Lists Australia (NICNAS): Dabsyl Chloride

VCI WGK: No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

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Section 16. Other Information

Hazardous Material
Information System
(U.S.A.)

Health	*	2
Fire Hazard		0
Reactivity		1
Personal Protection	j	

National Fire Protection
Association (U.S.A.)



References Not available.

History of Document Changes Any information changes since last document version are marked with a triangle symbol. 

Full text of R-Phrases Toxic in contact with skin and if swallowed.
referenced under headings 2 and 3: May cause cancer.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Validated by Pierce Administration on 11/4/2002.

Verified by Pierce Administration.

Date of Previous Issue No Previous
Validation

Printed 11/13/2002.

Version 0.01

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.