

**NICOTINE SULFATE****ICSC: 0520**

**Date of Peer Review:**  
**September 1997**





1-1-Methyl-2-(3-pyridyl)-pyrrolidine sulfate  
(S)-3-(1-Methyl-2-pyrrolidinyl)-pyridine sulfate  
1,3-(1-Methyl-2-pyrrolidyl)-pyridine sulfate

<b>CAS #</b>	<b>65-30-5</b>	<b>C<sub>20</sub>H<sub>26</sub>N<sub>4</sub>O<sub>4</sub>S</b>
<b>RTECS #</b>	<b>QS9625000</b>	<b>Molecular mass: 418.6</b>
<b>UN #</b>	<b>1658</b>	
<b>EC Annex 1 Index #</b>	<b>614-002-00-X</b>	
<b>EC/EINECS #</b>	<b>200-606-7</b>	

<b>TYPES OF HAZARD / EXPOSURE</b>	<b>ACUTE HAZARDS / SYMPTOMS</b>	<b>PREVENTION</b>	<b>FIRST AID / FIRE FIGHTING</b>
<b>FIRE</b>	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
<b>EXPLOSION</b>			

<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!</b>	<b>IN ALL CASES CONSULT A DOCTOR!</b>
<b>Inhalation</b>	Nausea. Vomiting. Abdominal pain. Headache. Convulsions.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
<b>Skin</b>	<b>MAY BE ABSORBED!</b> Redness. Pain. (See Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>Eyes</b>	Pain. Redness.	Face shield, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	(See Inhalation).	Do not eat, drink, or smoke during work.	Induce vomiting ( <b>ONLY IN CONSCIOUS PERSONS!</b> ). Refer for medical attention.

<b>SPILLAGE DISPOSAL</b>	<b>PACKAGING &amp; LABELLING</b>
Do NOT wash away into sewer. Sweep spilled substance into containers; if appropriate, moisten first	Do not transport with food and feedstuffs. Note: A <b>EU Classification</b>

to prevent dusting, then remove to safe place. (Extra personal protection: complete protective clothing including self-contained breathing apparatus).	Symbol: T+, N R: 26/27/28-51/53 S: (1/2-)13-28-45-61 <b>UN Classification</b> UN Hazard Class: 6.1 UN Pack Group: II
<b>EMERGENCY RESPONSE</b>	<b>STORAGE</b>
Transport Emergency Card: TEC (R)-61G67 NFPA Code: H3; F1; R2;	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs.
<b>IPCS</b> International Programme on Chemical Safety    	Prepared in the context of cooperation between the International Programme on Chemical Safety and the Commission of the European Communities © IPCS, CEC 2005  <b>SEE IMPORTANT INFORMATION ON BACK</b>

## NICOTINE SULFATE

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### IMPORTANT DATA

**PHYSICAL STATE; APPEARANCE:**  
COLOURLESS CRYSTALS.

**CHEMICAL DANGERS:**  
The substance decomposes on heating producing toxic fumes of sulfur oxides and nitrogen oxides. Reacts violently with strong oxidants.

**OCCUPATIONAL EXPOSURE LIMITS:**  
TLV not established.

**ROUTES OF EXPOSURE:**

The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

**INHALATION RISK:**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.

**EFFECTS OF SHORT-TERM EXPOSURE:**

The substance irritates the eyes and the skin. The substance may cause effects on the central nervous system, resulting in convulsions and respiratory failure. Exposure at high concentrations may result in death. The effects may be delayed. Medical observation is indicated.

**EFFECTS OF LONG-TERM OR REPEATED EXPOSURE:**

Animal tests show that this substance possibly causes toxic effects upon human reproduction.

### PHYSICAL PROPERTIES

Relative density (water = 1): 1.15  
Solubility in water: good  
Relative vapour density (air = 1): 14.5

Flash point: see Notes  
Auto-ignition temperature: 244°C

### ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

### NOTES

The substance is combustible but no flash point is available in literature. Black Leaf 40 is a trade name. Card has been partially updated in August 2007: see EU Classification.

### **ADDITIONAL INFORMATION**

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