MATERIAL SAFETY DATA SHEETS

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Emergency Contact:
CHEMTREC 1-800-424-9300

NICOTINE SULFATE

NICOTINE SULFATE
1,1-Methyl-2-(3-pyridyl)-pyrroolidine sulfate
(S)-3-(1-Methyl-2-pyrrolidinyl)-pyridine sulfate
1,3-(1-Methyl-2-pyrroolidyl)-pyridine sulfate
C_{30}H_{36}N_{4}O_{5}S

Molecular mass: 418.6  CAS # 65-30-5  RTECS # QS9625000  ICSC # 0520
UN # 1658  EC # 614-002-00-X

TYPES OF HAZARD/ACUTE HAZARDS/SYMPTOMS PREVENTION FIRST AID/FIRE FIGHTING

MSDS 837, Rev 1.1; 07/08, MSZ

Nicotine Sulfate/Page 1 of 1
EXPOSURE

FIRE

Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

NO open flames.

Powder, alcohol-resistant foam, water spray, carbon dioxide

EXPLOSION

PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF (PREGNANT) WOMEN!

IN ALL CASES CONSULT A DOCTOR!

EXPOSURE

INHALATION


Ventilation (not if powder), local exhaust, or breathing protection.

Fresh air, rest. Refer for medical attention.

MAY BE ABSORBED!

Redness. Pain (see Inhalation).

Protective gloves. Protective clothing.

Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

SKIN

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.

LESION

(See Inhalation).

Do not eat, drink, or smoke during work.

Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

DIGESTION

SPILLAGE DISPOSAL

Do NOT wash away into sewer. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting, then remove to safe place (extra personal protection: complete protective clothing including self-contained breathing apparatus).

STORAGE

Provision to contain effluent from fire extinguishing. Separated from strong oxidants, food and feedstuffs.

PACKAGING & LABELLING

Do not transport with food and feedstuffs. T+ symbol

R: 26/27/28
S: (1/2)-13-28-45
Note: A
UN Hazard Class: 6.1
UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

MSDS 837, Rev 1.1; 07/08, MSZ
Nicotine Sulfate/Page 2 of 2
NICOTINE SULFATE

PHYSICAL STATE; APPEARANCE: ROUTES OF EXPOSURE:
COLOURLESS CRYSTALS.
PHYSICAL DANGERS:
The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

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

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.

OCCUPATIONAL EXPOSURE LIMITS (OELs):
TLV not established.

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.

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.

The substance is combustible but no flash point is available in literature. Black Leaf 40 is a trade name.

IMPORTANT LEGAL NOTICE:
The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or

MSDS 837, Rev 1.1; 07/08, MSZ

Nicotine Sulfate/Page 3 of 3
becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.

Regulatory Data

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>RQ</th>
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<tbody>
<tr>
<td>Nicotine sulfate</td>
<td>65-30-5</td>
<td>100lb</td>
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