

PYRETHRUM**1475**

November 2003

CAS No: 8003-34-7
 RTECS No: UR4200000
 EC No: 613-022-00-6

Buhach
 Pyrethrum extract
 Pyrethrum oleoresin

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames. NO contact with oxidants.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Risk of fire and explosion on contact with oxidants.		

EXPOSURE		PREVENT GENERATION OF MISTS!	
Inhalation	Headache. Nausea. Vomiting.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness. Pain.	Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety goggles or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Numbness of tongue and lips. Excitation. Convulsions. Tetanic paralysis. Muscular fibrillation. Death from respiratory failure.	Do not eat, drink, or smoke during work. Wash hands before eating.	Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Personal protection: A/P2 filter respirator for organic vapour and harmful dust.	<p>Xn Symbol N Symbol R: 20/21/22-50/53 S: (2-)13-60-61</p> <p>Do not transport with food and feedstuffs.</p>

EMERGENCY RESPONSE	SAFE STORAGE
	Separated from strong oxidants, food and feedstuffs. Well closed. Provision to contain effluent from fire extinguishing.

IMPORTANT DATA

Physical State; Appearance

PALE YELLOW MOBILE OIL, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance decomposes on heating producing smoke and irritating fumes. Reacts with strong oxidants causing fire and explosion hazard.

Occupational exposure limits

TLV: 5 mg/m³ as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004).
MAK: (Inhalable fraction) 5 mg/m³; sensitization of skin (Sh);
Peak limitation category: II(2); (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation, 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 when dispersed.

Effects of short-term exposure

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the nervous system.

Effects of long-term or repeated exposure

Repeated or prolonged contact may cause skin sensitization.
Repeated or prolonged inhalation exposure may cause asthma.

PHYSICAL PROPERTIES

Decomposes below boiling point 170 °C at 0.01 kPa
Density: 0.84-0.86 g/cm³
Solubility in water: none

Flash point: 76°C c.c.
Octanol/water partition coefficient as log Pow: 4.3 (pyrethrin I); 5.9 (pyrethrin II)

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. This substance may be hazardous in the environment; special attention should be given to honey bees.

NOTES

Pyrethrum is a mixture of pyrethrin I and II, cinerin I and II, and jasmolin I and II.
Carrier solvents used in commercial formulations may change physical and toxicological properties.
Do NOT take working clothes home.
Anyone who has shown symptoms of asthma due to this substance should avoid all further contact.
The symptoms of asthma often do not become manifest until a few hours have passed and they are aggravated by physical effort.
Rest and medical observation are therefore essential.
Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.
Card has been partly updated in April 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible