

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Nilvadipine
Synonyms: 5-Isopropyl 3-methyl 2-cyano-6-methyl-4-(3-nitrophenyl)-1,4-dihydro pyridine-3,5-dicarboxylate
Company Identification: PI Chemicals Ltd.
Room 6-306, Building 2
1341 Pudong South Road
Pudong New Area, Shanghai 200212, China
Telephone Number: 86-21-51389368
Fax Number: 86-21-51389367
Emergency Number: 86-21-51389369

Section 2 - Product Information

Catalog Number: PI-34047
CAS Number: 75530-68-6
MDL Number: Not available
EC Number: None
Purity: 98.7%

Section 3 - Physical and Chemical Properties

Physical state: Crystalline powder
Color: Yellow
Odor: Not available
Molecular Formula: C₁₉H₁₉N₃O₆
Molecular Weight: 385.37
Freezing/Melting Point: Not available
Boiling Point: Not available
Flash Point: Not available
Autoignition Temperature: Not available
Refractive Index (n_{D20}): Not available
Density: Not available
Decomposition Temperature: Not available
Solubility: Not available

Section 4 - Hazards Identification

<i>Eye:</i>	Causes eye irritation.
<i>Skin:</i>	Causes skin irritation. Harmful if absorbed through the skin.
<i>Ingestion:</i>	May cause irritation of the digestive tract. Toxic if swallowed.
<i>Inhalation:</i>	May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

<i>Eye:</i>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<i>Skin:</i>	Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
<i>Ingestion:</i>	Get medical aid immediately. Wash mouth out with water.
<i>Inhalation:</i>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 6 - Stability and Reactivity

<i>Chemical Stability:</i>	Stable under normal temperatures and pressures.
<i>Materials to avoid:</i>	Strong oxidizing agents.
<i>Conditions to Avoid:</i>	Incompatible materials.
<i>Hazardous Decomposition Products:</i>	Carbon monoxide, carbon dioxide, nitrogen oxides.
<i>Hazardous Polymerization:</i>	Will not occur.

Section 7 - Handling and Storage

<i>Handling:</i>	Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.
<i>Storage:</i>	Store in a cool, dry well ventilated place away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

Section 8 - Personal Protection

<i>Eyes:</i>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<i>Skin:</i>	Wear appropriate protective gloves to prevent skin exposure.
<i>Clothing:</i>	Wear appropriate protective clothing to prevent skin exposure.
<i>Respirators:</i>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Fire and Explosion Hazard Data

General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

RTECS#: CAS#75530-68-6: US7968300

LD50/LC50: RTECS: CAS#75530-68-6:
LD50 - Lethal dose, 50 percent kill
Oral
Rodent - rat
1560 mg/kg;

LD50 - Lethal dose, 50 percent kill
Subcutaneous
Rodent - rat
>1 gm/kg;

LD50 - Lethal dose, 50 percent kill
Intravenous
Rodent - rat
9650 ug/kg;

LD50 - Lethal dose, 50 percent kill
Oral
Rodent - mouse
1300 mg/kg;

LD50 - Lethal dose, 50 percent kill
Subcutaneous
Rodent - mouse
>320 mg/kg;

LD50 - Lethal dose, 50 percent kill
Intravenous
Rodent - mouse

9150 ug/kg;

LD50 - Lethal dose, 50 percent kill

Oral

Mammal - dog

510 mg/kg;

LD50 - Lethal dose, 50 percent kill

Intravenous

Mammal - dog

3850ug/kg.

Carcinogenicity: Nilvadipine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

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 environmental regulations.

Section 14 - Transport Information

IATA: This substance is considered to be non-hazardous for transport.

IMO: This substance is considered to be non-hazardous for transport.

RID/ADR: This substance is considered to be non-hazardous for transport.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 22: Harmful if swallowed.

Safety Phrases:

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS#75530-68-6: 3

Canada

CAS#75530-68-6: Not available

US Federal

TSCA

CAS# 75530-68-6 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: March 25, 2006

Update: December 24, 2007

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