

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Retinamide

Synonyms: Fenretinide, NSC-374551, McN-R-1967, HPR, 4-HPR

Company Identification: PI Chemicals Ltd.

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Section 2 - Product Information

Catalog Number: PI-15713
CAS Number: 65646-68-6
MDL Number: MFCD00792674

Purity: 98%

Section 3 - Physical and Chemical Properties

Appearance: Crystalline powder

Color: Yellow

Odor: Not available Molecular Formula: $C_{26}H_{33}NO_2$ Molecular Weight: 391.55 Freezing/Melting Point: 167°-169°C **Boiling Point:** Not available Flash Point: Not available Autoignition Temperature: Not available Refractive Index (nD20): Not available Not available Density: Decomposition Temperature: Not available

Soluble to 100 mM in Ethanol and to 100 mM in DMSO

Section 4 - Hazards Identification

Eve: Causes eve initation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May be harmful if swallowed.



Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Get medical aid.

Skin: 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.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: 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

Chemical Stability: The product is stable.

Materials to avoid: Incompatible materials.

Conditions to avoid: Sensitive to light.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: Not available.

Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Wash thoroughly after handling. Keep locked up. Keep

away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient

ventilation, wear suitable respiratory equipment.

Store at -20°C. Store in a cool, dry well -ventilated place. Keep container tightly closed when

not in use. Protect from light.

Section 8 - Personal Protection

Eyes: 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.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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# 65646-68-6: RTECS#:VH6420000.

LD50/LC50: RTECS#: None listed.

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

Other: The toxicological properties have not been fully investigated.

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

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Indication of Danger: Not available

Risk Statements:

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

R60- May impair fertility.

R61- May cause harm to the unborn child.

Safety Statements:



S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS#65646-68-6: 3

Canada

CAS#65646-68-6: Not available

US Federal

TSCA

CAS# 65646-68-6 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: March 15, 2006 Update: May 6, 2008

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