Material Safety Data Sheet

Fenretinide
N-(4-Hydroxyphenyl)retinamide

1. COMPOSITION/INFORMATION ON INGREDIENTS
For batch specific information, please see Product Information sheet.

2. PHYSICAL AND CHEMICAL PROPERTIES
For batch specific information, please see Product Information sheet.

3. HANDLING AND STORAGE
Use in a chemical fume hood, with air supplied by an independent system.
Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
Material should be stored in a tightly sealed container under the storage condition stated on the Product Information sheet and on the vial label.

4. STABILITY AND REACTIVITY
Stability: Stable under normal handling conditions.
Conditions to avoid: Not applicable for this product

5. HAZARDS IDENTIFICATION
Exposure may cause irritation to eyes, mucous membranes upper respiratory tract and skin. Exposure may also cause the following: Effect fertility and/or unborn and breastfed infants; Retinal changes; Changes in blood cell count.

6. TOXICOLOGICAL INFORMATION
To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

RTECS No: VH6420000
Target Organs: Eyes; Respiratory system; Skin; Reproductive system; Cardiovascular
Toxicity Data: ORL-MAN TDLo: 180mg/kg; ORL-WMN TDLo: 210mg/kg; ORL-MUS TDLo: 8388mg/kg; IPr-MUS TDLo: 2138mg/kg.
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented above. See actual entry in RTECS for complete information.

7. REGULATORY INFORMATION
Classification: Toxic. May be harmful or fatal if inhaled, swallowed or absorbed through skin

Safety Phrases: S22 - Do not breathe dust
S24/25 - Avoid contact with skin and eyes
S36/39 - Wear suitable protective clothing and ey/face protection

Risk Phrases: 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
R68 - Possible risk of irreversible effects

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Wear appropriate chemical resistant gloves, safety goggles and other protective clothing to prevent contact with eyes and skin. Laboratory should be equipped with a safety shower and eye wash station. Avoid prolonged or repeated exposure. Do not breathe dust. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

9. FIRST-AID MEASURES
In cases of SKIN CONTACT: Wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. In case of eye contact, flush with copious amounts of water for at least 15 minutes.
In cases of INHALATION: Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration.
In cases of INGESTION: If swallowed, rinse mouth out with water, contact local poison centre and call a physician.

10. FIRE-FIGHTING MEASURES
Extinguishing Media: Material is non-combustible. Use extinguishing media appropriate to surrounding fire conditions.

Unusual Fire and Explosive Hazards: May emit toxic gases upon thermal decomposition.

Special Fire-Fighting Procedures: Wear protective clothing to prevent contact with skin and eyes.

11. ACCIDENTAL RELEASE MEASURES
Wear appropriate protective clothing. Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under DISPOSAL CONDITIONS.

12. ECOLOGICAL INFORMATION
Data not yet available - treat as potentially toxic if released into the environment.

13. DISPOSAL CONDITIONS
As specific country, federal, state and local environmental regulations are varied and change frequently, we recommend that you contact your local department for Health Services for information on the correct disposal of this product.

14. TRANSPORT INFORMATION
U.N.Number: Proper Shipping Name: IATA Class: IATA Packing Group:

15. OTHER INFORMATION
Due to the nature of this material. It must only be handled by suitably qualified experienced scientists in appropriately equipped and authorised facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislation. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

CAUTION — Not fully tested. For research use only. Not for human or veterinary use.

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Product Information

Fenretinide
N-(4-Hydroxyphenyl)retinamide

**Description:** Synthetic retinoid agonist. Antiproliferative, antioxidant and anticancer agent with a long half-life in vivo. Apoptotic effects appear to be mediated by a mechanism distinct from that of 'classical' retinoids.

**Physical and Chemical Properties:**
- Batch Molecular Formula: $C_{26}H_{33}NO_2$
- Batch Molecular Weight: 391.55
- CAS Number: [65646-68-6]
- Physical Appearance: Yellow solid
- Batch Molecular Structure:

Storage: Store at -20°C

**Solubility & Usage Info:**
CAUTION - This product is light sensitive and we recommend that solutions are protected from exposure to light. Soluble to 100 mM in ethanol and to 100 mM in DMSO.

**Stability and Solubility Advice:**
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Other Information:**

References: